

License Classifications

General Licensing Requirements

» [Who can apply for a contractor's license?](#)

» [Who is responsible for contracting activities?](#)

All persons listed on the license are responsible for the contracting activities of the business. "Person" means a qualifying party, an owner, any partner of a partnership, all members of a limited liability company, and any officer, director or owner of 25 percent or more of the stock of a corporation.



» [Who must be licensed as a contractor?](#)

Any business which contracts or offers to contract to build, alter, repair, add to, subtract from, improve, move, wreck or demolish any building, highway, road, railroad, excavation or other structure, development or improvement, or to do any part of the work must be a licensed contractor.

Also included in work requiring a license is the erection of scaffolding, connections to utility service lines, metering devices and sewer lines, mechanical or structural service to a structure or improvement and any other work in connection with the project.

"Contractor" includes subcontractors, floor covering contractors, hardscape contractors and consultants representing themselves as having the ability to supervise or manage a construction project for the benefit of the property owner.

Supervision or management includes hiring and firing of specialty contractors, scheduling of work on the project, and selection and purchasing of construction material.

Contractors must be properly licensed before submitting bids.

» [What is the "Handyman Exemption"? Must all contractors be licensed?](#)

» [To whom is the license issued?](#)

» [If the ownership of a business changes, is the contractor's license considered to be part of the business?](#)

No, a license is non-transferable, with the possible exception of a corporation or limited liability company. If stock is sold and the file number assigned by the Arizona Corporation Commission remains the same, the same license can be used if the license is active and in good standing.

Contractor's License Classifications

The Arizona Registrar of Contractors issues separate licenses for commercial and residential work, and dual licenses that cover both commercial and residential, for each particular trade or field of a construction science profession.

Residential contracting is defined as constructing, altering, repairing, adding to, subtracting from, improving, moving, wrecking or demolishing any residential structure, such as houses, townhouses, condominiums or cooperative units and any appurtenances on or within residential property lines.

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Residential construction also includes any appurtenances on or within residential property lines, connection to utility service and sewer lines, meters and mechanical or structural service for any residential structure.

Commercial contracting is anything other than residential.

Click on items to see or hide detail information.

» [Engineering Contracting \(Commercial\)](#)

A General Engineering

This classification allows the licensee to construct or repair:

1. Fixed works
2. Streets
3. Roads
4. Power and utility plants
5. Dams
6. Hydroelectric plants
7. Sewage and waste disposal plants
8. Bridges
9. Tunnels
10. Overpasses
11. Public parks
12. Public right-of-ways

Also included are the scopes of work allowed by the A-4 through A-19. This classification does not include work authorized by the B-1, B-2, B- or B-3 scopes.

A-4 Drilling

This classification allows the licensee to drill, including horizontal and vertical drilling or boring, constructing, deepening, repairing, or abandoning wells; exploring for water, gas, and oil; and constructing dry wells, and monitor wells. Also included is the erection of rigs, derricks and related substructures, and installation, service and repair of pumps and pumping equipment.

A-5 Excavating, Grading and Oil Surfacing

This classification allows the licensee to apply oil surfacing or other similar products; place shoring, casing, geotextiles or liners; and perform incidental blasting or drilling as required for the licensee to move, alter, or repair earthen materials by:

1. Digging
2. Trenching
3. Grading
4. Horizontal boring
5. Compacting
6. Filling

This license does not allow the licensee to excavate for water, gas or oil wells.

A-7 Piers and Foundations

This classification allows the licensee to install piers and foundations using concrete, rebar, post-tension and other materials common to the industry. Includes pile driving, excavation, forming and other techniques and equipment common to the industry.

A-9 Swimming Pools

This classification allows the licensee to construct, service, and repair swimming pools and spas, including water and gas service lines from point of service to pool equipment, wiring from pool equipment to 1st readily accessible disconnect, pool piping, fittings, backflow prevention devices, waste lines, and other integral parts of a swimming pool or spa.

Also included is the installation of swimming pool accessories, covers, safety devices, and fencing for protective purposes, if in the original contract.

A-11 Steel and Aluminum Erection

This classification allows the licensee to install and repair architectural and structural steel and aluminum materials common to the industry. This classification also includes reinforcing steel and field layout, cutting, assembly, and erection by welding, bolting, wire tying or riveting.

A-12 Sewers, Drains and Pipe Laying

This classification allows the licensee to install and repair any project involving sewer access holes, the laying of pipe for storm drains, water and gas lines, irrigation, and sewers. Includes connecting sewer collector lines to building drains and the installation of septic tanks, leach lines, dry wells, all necessary connections, liners and related excavating and backfilling.

A-14 Asphalt Paving

This classification allows the licensee to install asphalt paving, and all related fine grading on streets, highways, driveways, parking lots, tennis courts, running tracks, play areas, and gas station driveways and areas, using materials and accessories common to the industry. Only permitted as it pertains to the larger scope of work, the classification also permits excavation and grading for height adjustment of existing sewer access holes, storm drains, water valves, sewer cleanouts, and drain gates. Also included is the scope of work allowed by the A-15 Seal Coating Classification.

A-15 Seal Coating

This classification allows the licensee to apply seal coating to asphalt paving surfaces. This classification also allows repair of surface cracks and application of painted marking symbols.

A-16 Waterworks

This classification allows the licensee to perform all work necessary for the production and distribution of water including drilling well, setting casing and pump, related electrical work, related concrete work, excavation, piping for storage and distribution, storage tanks, related fencing, purification and chlorination equipment.

A-17 Electrical and Transmission Lines

This classification allows the licensee to install, alter, and repair transmission lines on public right-of-ways, including erection of poles, guying systems, tower line erection, cellular and communication towers, street lighting of all voltages, and all underground systems including ducts for signal, communication, and similar installations. This

classification also allows the licensee to install transformers, circuit breakers, capacitors, primary metering devices and other related equipment of all commercial electrical construction.

A-19 Swimming Pools, Including Solar

This classification allows the licensee to perform the same scope of work permitted by the A-9 but also includes installation and repair of solar heating devices.

» [General Commercial Contracting](#)

» [Residential Contracting](#)

B General Residential Contractor

This classification allows the licensee to construct and repair all or any part of a residential structure or appurtenance. Work related to electrical, plumbing, air conditioning systems, boilers, swimming pools, spas and water wells must be subcontracted to an appropriately licensed contractor. This classification does not include work authorized by the A-, B-1, or B-2 scopes.

B-3 General Remodeling and Repair Contractor

This classification allows the licensee to remodel and repair an existing residential structure or appurtenance except for electrical, plumbing, mechanical, boilers, swimming pools, spas and water wells, which must be subcontracted to an appropriately licensed contractor. The scope of work allowed under the R-7 carpentry classification is included within this scope. This classification does not include work authorized by the A-, B-1, or B-2 scopes.

B-4 General Residential Engineering Contractor

This classification allows the licensee to construct and repair of appurtenances to residential structures. Work related to electrical, plumbing, air conditioning systems, boilers, and water wells must be subcontracted to an appropriately licensed contractor. This scope includes the CR-21, B-5, and all B-4R subclassifications.

B-5 General Swimming Pool Contractor

This classification allows the licensee to construct and repair of swimming pools and spas. Installation of code-required pool barriers around the swimming pool or spa and installation of utilities from the point of service to the pool equipment. Construction of other structures or appurtenances is excluded. This scope includes all B-5R subclassifications.

B-6 General Swimming Pool Contractor, Including Solar

This classification allows the licensee to perform the same scope of work permitted by the B-5 (including all B-5R subclassifications) but also includes installation and repair of solar heating devices.

B-10 Pre-Manufactured Spas and Hot Tubs

This classification allows the licensee to construct and repair of spas and hot tubs. Installation of code-required pool barriers around the spa or hot tub and installation of utilities from the point of service to the spa equipment are included.

» [Specialty Residential Contracting](#)

» [General Dual Engineering Contracting](#)

KA Dual Engineering

This classification allows the scope of work permitted by the commercial A- General Engineering and the B-4 General Residential Engineering licenses.

KA-5 Dual Swimming Pool Contractor

This classification allows the scope of work permitted by the commercial A-9 Swimming Pools and the residential B-5 General Swimming Pool licenses.

KA-6 Dual Swimming Pool Contractor, Including Solar

This classification allows the scope of work permitted by the commercial A-19 Swimming Pools, Including Solar and the residential B-6 General Swimming Pools, Including Solar licenses.

» [General Dual License Contracting](#)

» [Specialty Dual License Contracting](#)

» [Specialty Commercial Contracting](#)

C-1 Acoustical Systems

This classification allows the licensee to install and repair pre-manufactured acoustical ceiling and wall systems.

C-3 Awnings, Canopies, Carports and Patio Covers

This classification allows the licensee to place concrete footings and concrete slabs as required for the licensee to install and repair:

1. Window awnings
2. Door hoods
3. Freestanding or attached canopies
4. Carport and patio covers constructed of metal, fabric, fiberglass, or plastic
5. Screened and paneled enclosures, which are not intended for use as habitable spaces, using metal panels, plastic inserts, and screen doors. A minimum of 60% of the wall area of an enclosure shall be constructed of screening material.
6. Fascia panels
7. Flashing and skirting
8. Exterior, detached metal storage units not to exceed 120 square feet

This classification does not allow the licensee to install or repair electrical, plumbing, or air conditioning systems.

C-4 Boilers, Steamfitting and Process Piping

This classification allows the licensee to install, alter, and repair steam and hot water systems and boilers, including chimney connections, flues, refractories, burners, piping, fittings, valves, thermal insulation, and accessories; fuel and water lines from source of supply to boilers; process and specialty piping and related equipment; pneumatic and electrical controls.

If necessary, a new circuit may be added to the existing service panel or sub-panel. Excluded is the installation of a new service panel or sub-panel.

C-6 Swimming Pool Service and Repair

This classification allows the licensee to replace and repair commercial pools and accessories including all existing connections and equipment. Plumbing connections to a potable water system, gas lines, gas chlorine systems, and electrical work beyond the first disconnect must be subcontracted to a properly licensed contractor.

This classification does not allow the licensee to perform a complete replacement of plaster or pebble pool interiors and decks.

C-7 Carpentry

This classification allows the licensee to install and repair:

1. Rough carpentry
2. Finish carpentry
3. Hardware
4. Millwork
5. Metal studs
6. Metal doors or door frames
7. Windows

C-8 Floor Covering

This classification allows the licensee to prepare a surface as required for the licensee to install and repair the following floor covering materials:

1. Carpet
2. Floor tile
3. Wood
4. Linoleum
5. Vinyl
6. Asphalt
7. Rubber
8. Concrete coatings

C-9 Concrete

This classification allows the licensee to install and repair concrete, concrete products, and accessories common to the industry.

This classification also allows the licensee to perform trenching, excavating, backfilling, and grading in connection with concrete construction.

C-10 Drywall

This classification allows the licensee to install and repair:

1. Gypsum wall board
2. Ceiling grid systems
3. Movable partitions
4. Wall board tape and texture
5. Non-load bearing, lightweight, steel wall partitions

C-11 Electrical

This classification allows the licensee to install, alter, and repair any wiring, related electrical material and equipment used in the generating, transmitting, or utilization of electrical energy less than 600 volts, including all overhead electrical wiring on public right-of-ways for signs and street decorations, and all underground electrical distribution systems of less than 600 volts serving private properties.

This classification also allows the licensee to install, alter, and repair all outside, overhead, and underground electrical construction and all wiring in or on any building of less than 600 volts, but does not permit work in public right-of-ways.

C-12 Elevators

This classification allows the licensee to install and repair:

1. Elevators
2. Dumbwaiters
3. Escalators
4. Moving walks and ramps
5. Stage and orchestra lifts

C-14 Fencing

This classification allows the licensee to install and repair:

1. Metal, wood, and cement block fencing
2. Automatic gates
3. Fire access strobes
4. Cattle guards
5. Low voltage U.L. approved electrical fence protective devices of less than 25 volts and 100 watts

This classification does not allow the licensee to install or repair retaining walls.

C-15 Blasting

This classification allows the licensee to drill, bore, move earth, and build temporary shelters or barricades, as required for the licensee's use of explosives and explosive devices for:

1. Excavation
2. Demolition
3. Geological exploration
4. Mining
5. Construction related blasting

C-16 Fire Protection Systems

This classification allows the licensee to install, alter, and repair of fire protection systems using water, steam, gas, or chemicals. Included is any required excavation, trenching, backfilling and grading, piping from structure, and connections to off-premise water supply adjacent to property involving a fire protection system.

Systems may include the following areas of work and related equipment: restaurant hood

protection systems; fire pumps and drivers; pressure and storage tanks; all piping and valves; sprinkler heads and nozzles; and application of materials for the prevention of corrosion or freezing.

Also included are air compressors, air receivers, bottled inert gases, pressurized chemicals, manifolds, pneumatic, hydraulic, or electrical controls, low voltage signaling systems, control piping, and the flushing and testing of systems.

C-21 Hardscaping and Irrigation Systems

This classification allows the licensee to install, alter, and repair:

1. Non-loadbearing concrete
2. Uncovered patios, walkways, driveways made of brick, stone, pavers or gravel
3. Wooden decks no higher than 29 inches above finish grade
4. Decorative garden walls up to six feet from finish grade
5. Fences and screens up to six feet from finish grade
6. Retaining walls up to three feet from the finish grade of the lower elevation
7. Free standing fire pits, fireplaces, or barbeques - electric, plumbing, and gas must be subcontracted to a properly licensed contractor
8. Low voltage landscape lighting
9. Water features that are not attached to swimming pools; including any necessary: electrical wiring of 120 volts or less, connection to potable water lines, backflow prevention devices, hose bibs, excavating, trenching, boring, backfilling, or grading
10. Irrigation systems, including any necessary: electrical wiring of 120 volts or less, connection to potable water lines, backflow prevention devices, hose bibs,excavating, trenching, boring, backfilling, or grading

With the exception of free standing fire pits, fireplaces, or barbeques, this classification does not allow the licensee to install, contract for, or subcontract new electrical service panels, gas or plumbing lines, blasting, outdoor kitchens, gazebos, room additions, swimming pools, pool deck coatings, concrete driveways, load bearing walls, or perimeter fencing.

C-24 Ornamental Metals

This classification allows the licensee to install, alter, or repair non-structural ornamental metal, such as:

1. Metal folding gates
2. Guard and hand rails
3. Wrought iron fencing and gates
4. Window shutters and grilles
5. Room dividers and shields
6. Metal accessories common to the industry

This classification does not allow the licensee to install fire escapes or stairs.

C-31 Masonry

This classification allows the licensee to grout, caulk, sand blast, tuckpoint, mortar wash, parge, clean and weld reinforcing steel as required for the licensee to install and repair:

1. Masonry
2. Brick

3. Concrete block
4. Insulating concrete forms
5. Adobe units
6. Stone
7. Marble
8. Slate
9. Mortar-free masonry products

C-34 Painting and Wall Covering

This classification allows the licensee to perform surface preparation to install, apply or repair:

1. Wallpaper
2. Wall covering cloth
3. Wall covering vinyl
4. Decorative texture
5. Paint
6. Liquid floor and wall coatings

C-36 Plastering

This classification allows the licensee to install laths, metal studs, metal grid systems, or other bases as required for the licensee to coat surfaces by trowel or spray with combinations of:

1. Sand mixtures (e.g. stucco)
2. Gypsum plaster
3. Cement
4. Acoustical plaster
5. Swimming pool interiors (excluding tile)

C-37 Plumbing

Installation, alteration, and repair of all plumbing when performed solely within property lines and not on public easements or right-of-ways, except as hereinafter provided.

Installation, alteration, and repair of all piping, fixtures, and appliances related to water supply, including pressure vessels and tanks (excluding municipal or related water supply systems); venting and sanitary drainage systems for all fluid, semi-fluid, and organic wastes; septic tanks and leaching lines; roof leaders; lawn sprinklers; water conditioning equipment; piping; and equipment for swimming pools.

Also included are piping, fixtures, appliances, and pressure vessels for manufactured and natural gases, compressed air and vacuum systems, petroleum, fuel oil, non-potable liquids, hot water heating, and hot water supply systems operating at pressures not exceeding 30 PSIG, or temperatures not exceeding 220 °F; steam heating and steam supply systems not exceeding 15 PSIG operating pressure; gas or oil fired space heaters and furnaces, excluding duct work. Piping for water cooling systems, excluding the refrigerant piping and equipment. Testing and balancing of hydronics systems.

Sewer, gas, water lines, and connections from structure to the nearest point of public supply or disposal may cross public or private easements or be installed within private

easements or right-of-ways. Pipe installed across public property may not be increased in size, or make any other connection between the point of exit from private property to the point of connection at public supply or disposal. These lines shall not be installed parallel to main lines in public easements or right-of-ways.

C-38 Signs

This classification allows the licensee to install and repair posts, poles, supports, paint, and electrical wiring as required for the licensee to install and repair:

1. Signs
2. Displays
3. Flagpoles

C-39 Air Conditioning and Refrigeration

This classification allows the licensee to install, alter, and repair refrigeration and evaporative cooling systems.

This classification also allows the licensee to perform installation, alteration, and repair of heating systems of "wet", "dry" or radiant type. "Wet" systems include steam or hot water boilers and coils, or baseboard convectors, and are limited to 30 PSIG operating pressure of 220 degrees F for hot water and 15 PSIG operating pressure for steam. Dry systems include gas fired furnaces and space heaters.

This classification also allows the licensee to perform installation, alteration, and repair of ventilation systems includes duct work, air filtering devices, water treatment devices, pneumatic or electrical controls, and control piping. Thermal and acoustical insulation of refrigerant pipes and ductwork, vibration isolation materials and devices, liquid fuel piping and tanks, water and gas piping from service connection to the equipment it serves. Testing and balancing of refrigerant, cooling, heating circuits, and air handling systems.

If necessary, a new circuit may be added to the existing service panel or sub-panel. Excluded is the installation of a new service panel or sub-panel.

C-40 Insulation

This classification allows the licensee to install and repair:

1. Insulation materials, including radiant barriers
2. Preformed architectural acoustical materials
3. Insulation protecting materials

C-41 Septic Tanks and Systems

This classification allows the licensee to excavate, install and repair pipe, back fill, and compact soil as required for the licensee to install and repair.

1. Septic tanks
2. Aerobic digesters
3. Leaching fields

C-42 Roofing

This classification allows the licensee to apply, repair, or install weatherproofing (i.e. asphaltum, pitch, tar, felt, glass fabric, flax, or other commonly used materials or systems)

or roof accessories (i.e. flashing, valleys, gravel stops, or sheet metal) as required for the licensee to install and repair:

1. Roof tile
2. Shingles
3. Shakes
4. Slate
5. Metal roofing systems
6. Urethane foam
7. Roof insulation or coatings on or above the roof deck This classification allows the licensee to replace up to 10 percent of the total roof substrate square footage as it relates to issues with substrate discovered after execution of the initial contract. Replacing more than 10 percent of the roof substrate square footage as it relates to issues with substrate discovered after execution of the initial contract requires licensee to subcontract work to a properly licensed contractor.

This classification also allows the licensee to install new or replace existing skylights where it does not require changes to the roof framing or roof structure and replace fascia not to exceed 24 linear feet.

Licensee may lift HVAC equipment to allow for proper installation of roofing material. However, the licensee must subcontract work to a properly licensed contractor if HVAC equipment ducting requires any modification to allow for proper installation of roofing material.

C-45 Sheet Metal

This classification allows the licensee to install and repair:

1. Sheet metal
2. Cornices
3. Flashings
4. Gutters
5. Leaders
6. Pans
7. Kitchen equipment
8. Duct work
9. Skylights
10. Patented chimneys
11. Metal flues
12. Metal roofing systems

C-48 Ceramic, Plastic and Metal Tile

This classification allows the licensee to prepare a surface as required for the licensee to install and repair the following tile products on horizontal and vertical surfaces:

1. Ceramic
2. Clay
3. Faience
4. Metal
5. Mosaic
6. Glass mosaic
7. Paver
8. Plastic

9. Quarry and stone tiles such as marble or slate
10. Terrazzo

Installation of shower doors and tub enclosures are included when a part of the original contract.

C-49 Refrigeration

This classification allows the licensee to install, alter, and repair refrigeration equipment and systems used for processing, storage, and display of food products and other perishable commodities. This classification includes commercial, industrial, and manufacturing processes requiring refrigeration excluding comfort air conditioning.

Systems may also include the following areas of work and related equipment: temperature, safety and capacity controls, thermal insulation, vibration isolation materials and devices; water treatment devices; construction and installation of walk-in refrigeration boxes, liquid fuel piping and tanks, water and gas piping from equipment to service connection; and testing and balancing of refrigeration equipment and systems.

If necessary, a new circuit may be added to the existing service panel or sub-panel. Excluded is the installation of a new service panel or sub-panel.

C-53 Water Well Drilling

This classification allows the licensee to drill new water wells or deepen existing water wells by use of standard practices including the use of cable tools, compressed air percussion, rotary, air rotary, or reverse circulation rotary methods. Includes installing casing, gravel pack, perforating and sanitary seals. Repair existing wells by sand pumping, jetting, acidizing, swabbing, clean out, re-perforating, swaging, installation of annealed lines, and the removal of debris.

Includes photographing interior of wells with appropriate equipment. Installation of jet and submersible pumps; electrical pump controls and wiring from pump equipment to first readily accessible disconnect; and water line to storage or pressure tank, not to exceed 50 linear feet. Use of a test pump to develop a new well, or repair an existing well, when provided in contract, is limited to 5 horsepower.

Installation of concrete pump bases not to exceed 50 square feet.

Installation of protective fencing when included in original contract.

C-54 Water Conditioning Equipment

This classification allows the licensee to perform trenching, backfilling, and grading; and install and repair piping, fittings, valves, concrete supports, and electrical control panels of less than 25 volts and required grounding devices; as required for the licensee to install and repair:

1. Water conditioning equipment
2. Misting systems
3. Exchange tanks
4. Indirect waste pipe carrying brine, backwash and rinse water to the point of disposal

C-56 Welding

This classification allows the licensee to weld metals.

C-57 Wrecking

This classification allows the licensee to install and repair temporary ramps, barricades, and pedestrian walkways as required for the licensee to demolish, dismantle, or remove structures not intended for reuse. This classification does not allow the licensee to use explosives.

C-58 Comfort Heating, Ventilating and Evaporative Cooling

This classification allows the licensee to install, alter, and repair warm air heating systems, gas fired furnaces and space heaters, ventilation and evaporative cooling units, or any combination of these.

Systems may include the following areas of work and related equipment; duct work, air filtering devices, pneumatic or electrical controls, control piping, thermal and acoustical insulation, vibration isolation materials and devices, liquid fuel piping and tanks, water and gas piping from service connection to equipment it serves. Testing and balancing of air handling systems.

If necessary, a new circuit may be added to the existing service panel or sub-panel. Excluded is the installation of a new service panel or sub-panel.

C-60 Finish Carpentry

This classification allows the licensee to install and repair millwork such as:

1. Cabinets
2. Counter tops
3. Case sash
4. Door trim
5. Metal doors
6. Automatic door closers
7. Wood flooring

C-61 Carpentry, Remodeling and Repairs

For projects of \$50,000 or less including labor and materials, this classification allows the licensee to perform all general remodeling, additions, replacements, and repairs to existing structures.

Work related to electrical, plumbing, air conditioning systems, and boilers must be subcontracted to an appropriately licensed contractor.

C-65 Glazing

This classification allows the licensee to install and repair weatherproofing, caulking, sealants, and adhesives as required for the licensee to install and repair:

1. Glass products
2. Window film
3. Window treatments, such as blinds or shutters
4. Steel and aluminum glass holding members

C-67 Low Voltage Communication Systems

This classification allows the licensee to build antenna towers on existing structures as required for the licensee to install, service, and repair:

1. Alarm systems
2. Telephone systems
3. Sound systems
4. Intercommunication systems
5. Public addressing systems
6. Television or video systems
7. Low voltage signaling devices
8. Low voltage landscape lighting that does not exceed 91 volts
9. Master and program clocks (only low voltage wiring and needed equipment)

C-70 Reinforcing Bar and Wire Mesh

This classification allows the licensee to install and repair:

1. Reinforcing bar
2. Post-tension
3. Wire mesh

C-74 Boilers, Steamfitting and Process Piping, Including Solar

This classification allows the licensee to install, alter, and repair steam and hot water systems and boilers including solar. Also included are chimney connections, flues, refractories, burners, piping, fittings, valves, thermal insulation and accessories; fuel and water lines from source of supply to boilers; process and specialty piping and related equipment; pneumatic and electrical controls.

If necessary, a new circuit may be added to the existing service panel or sub-panel. Excluded is the installation of a new service panel or sub-panel.

C-77 Plumbing Including Solar

This classification allows the licensee to install, alter, and repair all plumbing including solar, when performed solely within property lines and not on public easements or right-of-ways except as hereinafter provided.

This classification also allows for installation, alteration, and repair of all piping, fixtures and appliances related to water supply, including pressure vessels and tanks (excluding municipal or related water supply systems); venting and sanitary drainage systems for all fluid, semifluid, and organic wastes; septic tanks and leaching lines; roof leaders; lawn sprinkler systems; water conditioning equipment; piping and equipment for swimming pools.

Also included are piping, fixtures, appliances, and pressure vessels for manufactured and natural gases, compressed air and vacuum systems, petroleum, fuel oil, non-potable liquids, hot water heating and hot water supply systems operating at pressures not exceeding 30 PSIG or temperatures not exceeding 220 °F; steam heating and steam supply systems not exceeding 15 PSIG operating pressure; gas or oil fired space heaters and furnaces excluding duct work. Piping for water cooling systems, excluding the refrigerant piping and equipment. Testing and balancing of hydronics systems.

Sewer, gas, water lines, and connections from structure to the nearest point of public supply or disposal may cross public or private easements or be installed within private easements. Pipe installed across public property may not be increased in size or make any other connection between the point of exit from private property to point of connection at public supply or disposal.

These lines shall not be installed parallel to main lines in public easements or right-of-ways.

C-78 Solar Plumbing, Liquid Systems Only

This classification allows the licensee to install, alter, and repair solar water heating systems operating at temperatures not exceeding 220 degrees F, including thermosyphon, direct (open loop), and indirect (closed loop), but excludes air as a transfer medium.

Includes installation of collectors, storage and expansion tanks, heat exchangers, piping valves, pumps, sensors and low voltage controls which connect to existing plumbing and electrical stubouts at the water tank location.

Installation of solar water heating systems for swimming pools which tie into and operate from the conventional pool systems, but excludes all non-solar plumbing, electrical and mechanical systems and components.

Installation of backup and auxiliary heating systems only when such systems are included in the original contract and when such systems are an integral part of the solar collector or storage equipment.

C-79 Air Conditioning and Refrigeration, Including Solar

This classification allows the licensee to install, alter, and repair of refrigeration and evaporative cooling systems, including solar.

This classification also allows for installation, alteration, and repair of heating systems of "wet", "dry" or radiant type. "Wet" systems include steam, or hot water boilers and coils, or baseboard convectors and are limited to 30 PSIG operating pressure of 220 degrees F for hot water and 15 PSIG operating pressure for steam. Dry systems include gas fired furnaces and space heaters.

This classification also allows for installation, alteration, and repair of ventilation systems. Installation of these systems include duct work, air filtering devices, water treatment devices, pneumatic or electrical controls, and control piping. Thermal and acoustical insulation, vibration isolation materials and devices, liquid fuel piping and tanks, and water and gas piping from service connection to equipment it serves. Testing and balancing of refrigerant, cooling and heating circuits, and air handling systems.

If necessary, a new circuit may be added to the existing service panel or sub-panel. Excluded is the installation of a new service panel or sub-panel.