

# C-21R Irrigation Systems (Residential) and L-44 Irrigation Systems (Commercial)

## License Information

**Scope** – Excavate, trench, bore, backfill and grade as necessary for installation of irrigation systems.

Installation, repair and maintenance of irrigation systems to distribute water for the purpose of irrigation, dust and soil erosion control, using equipment, materials and fittings common to the industry. This includes electrical control panels and apparatus that are an integral part of the irrigation system.

Installation of backflow prevention devices, hose bibs, service lines and connections to potable water lines from source of supply are permitted only when they are an integral part of the irrigation system.

Installation of electric wiring and related fixtures of 110 volts or less for irrigation projects is included. All electrical work is limited to exterior use and only that work necessary to complete an irrigation project.

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.

The trade test is considered equivalent for these classifications and upon passing the CBME and trade exam, either license classification may be applied for without further testing.

Preparation and alteration of land for horticulture and arboriculture. Installation of irrigation systems and controls. Carpentry is limited to decorative fences and screens, planter boxes, and plant tubs common to the industry. Excluded are retaining walls over 3 feet, decorative alls or fences over 6 feet, perimeter walls, fences, and load bearing slabs and walkways. If necessary, a new circuit may be added to the existing service panels or subpanel. Excluded is the installation of a new service panel or subpanel. This scope includes all of C-21R subclassification. Landscaping, Irrigation Systems.

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## Examination Outline

### Closed Book

**80 Questions - Two-hour time limit**

**70% Correct required to pass**

Exam Topic	%
Piping and Valves	30
Spray Heads	20
System Design	15
Pumps	10
Backflow Prevention	10
Plans and Specifications	5
Controls and Wiring	10

## References

The following references were used to create exam questions but **are not allowed** in the testing center.

1. *Uniform Plumbing Code*, 2006, International Association of Plumbing and Mechanical Officials (IAPMO), 5001 East Philadelphia Street, Ontario, CA 91761-2816, [www.iapmo.org](http://www.iapmo.org).
2. *Handbook of Water Use and Conservation (AWWA)*, 2001 Edition, American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235, [www.awwa.org](http://www.awwa.org).
3. *Simplified Irrigation Design*, Second Edition, 1995, Wiley Publishing, Inc., 10475 Crosspoint Boulevard, Indianapolis, IN 56256, [www.wiley.com](http://www.wiley.com).
4. *Turf Irrigation Manual*, Fifth Edition, 1994, Telsco Industries - Weathermatic Publications, Irrigation Association, 6540 Arlington Boulevard, Falls Church, VA 22042-6638, [www.irrigation.org](http://www.irrigation.org).

*For information on how to obtain exam references, please call toll-free 877.624.2562.*