

# Underground Construction

Catalog Number: C12910

Exam Number: 912751

Effective Date: 01/01/04

## License Information

**Scope** – Tests a candidate's knowledge of the installation, maintenance, repair, alteration, and extension of underground utilities.

## Examination Outline

### Open Book

**50 Questions – 2-1/2-hour time limit**

**75% Correct required to pass**

Exam Topic	%
Survey and Layout	10
Site Work	14
Concrete Pipe Installation	18
Sewer Installation	14
Water Installation	14
Manholes and Vaults	10
Safety – OSHA	20

## References

The following references **are allowed** in the testing center.

1. Code of Federal Regulations, Title 29, Part 1926, (OSHA), 2003 Edition, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954.
2. *OSHA Excerpts for Contractors*, Fourth Edition, 2003, Prometric, [www.prometric.com](http://www.prometric.com).

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

1. AWWA Standard for Installation of Ductile Iron Water Mains and their Appurtenances, C600-99, 1999 Edition, American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235.
2. AWWA Standard for Welded Steel Tanks for Water Storage, D100-96, 1996 Edition, American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235.
3. AWWA Standard for Polyvinyl Chloride (PVC) Pressure Pipe, 4 in. through 12 in., for Water Distribution ANSI/AWWA, C900-89, 1989 Edition, American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235.

4. Installation Guide for Ductile Iron Pipe, 2002 Edition, Ductile Iron Pipe Research Association, 245 Riverchase Parkway East, Suite O, Birmingham, AL 35244.
5. Concrete Pipe Installation Manual, 1999 Edition, American Concrete Pipe Association, 222 West Las Colinas Blvd., Suite 641, Irving, TX 75039-5423.
6. Excavation and Grading Handbook, Revised Second Edition, 1987, Craftsman Book Company, 6058 Corte del Cedro, Carlsbad, CA 92009.
7. Pipe and Excavation Contracting, 1987 Edition, Craftsman Book Company, 6058 Corte del Cedro, Carlsbad, CA 92009.

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