

Exam Preparation

What do I study?

- ◆ Analysts who work daily in a lab should have the knowledge and information necessary to pass the exam.
- ◆ A review of the general information sections of various resources, such as Standard Methods, is advisable.
- ◆ Refer to ABC's Certification Program Need-to-Know Criteria
http://www.abccert.org/testing_services/need_to_know_criteria.asp

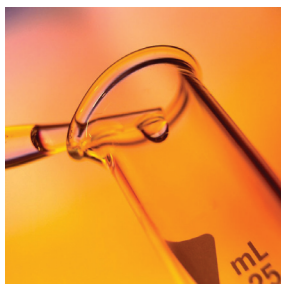
Where can I get more information?

- ◆ Attend your section's Lab Analyst Committee meetings for opportunities to network with others who have already taken the exams.
- ◆ For test dates, exam applications, and details on qualifications, visit:
<http://www.ohiowea.org/certification.php>

or contact:

Ohio Water Environment Association
1890 Northwest Blvd, Suite 210
Columbus, Ohio 43212

T: 614.488.5800
F: 614.488.5801
E: info@ohiowea.org



The Ohio Water Environment Association is a not-for-profit 501(c)(3) association that provides technical education and training for Ohio water quality professionals who clean water and return it safely to the environment.


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1890 Northwest Blvd, Suite 210
Columbus, OH 43212



Voluntary Wastewater Laboratory Analyst Certification Program



www.ohiowea.org

Program Supported by:
WEF OEPA ABC

Benefits of Certification

Certified wastewater analysts are a valuable resource to the industry. In the wastewater industry, every employer has a general obligation to ensure the competency of the personnel providing services. Laboratory analyst certification provides employers with evidence that the certificate holder has demonstrated a measurable level of job-related knowledge, skills and abilities. Additional benefits include:

Effective Operations

Certified Analysts are better able to:

- ◆ Understand the laboratory impact on plant process control
- ◆ Make safe, cost-effective decisions
- ◆ Help wastewater treatment plants meet NPDES permit requirements
- ◆ Provide efficient operations
- ◆ Protect the public investment in facilities, the environment, and public health

Analyst Recognition

- ◆ Achieve recognition by peers, supervisors, regulators, and the public
- ◆ Improve morale, productivity, and job effectiveness
- ◆ Build pride in accomplishment
- ◆ Create a venue for self-improvement

Career Enhancement

- ◆ Certification provides a basis for selecting and promoting analysts, and a justification for increases in salary
- ◆ Certification increases career opportunities through reciprocity with other states

Examination Subject Matter

Typical analytical capabilities for examinations:

General Knowledge

- ◆ Principles of Chemistry
Organic, Inorganic, Physical
- ◆ Laboratory Safety
Fire, First Aid, Chemical Handling
- ◆ Documentation
Regulations, Records
- ◆ Sampling
Preservation, Techniques
- ◆ Basic Techniques
Housekeeping, Lab Skills

Analysis

- ◆ Instrumentation
Balances, GC/MS, Automated, Meters, Spectrophotometers, Centrifuges, TOC
- ◆ Spectrophotometry
AA, UV-VIS, IR
- ◆ Selective Ion
pH, Ammonia, Cyanide, Chlorine, Chloride, Fluoride, Nitrate
- ◆ Titrametric
Oxidation/Reduction, Acid-Base, Complex Ion
- ◆ Quality Control
Precision, Accuracy, Glassware, Sampling, Containers
- ◆ Biological Tests
E. coli, BOD, Mixed Liquor, Biomonitoring, Fecal Coliform
- ◆ Physical
Solids, Oil & Grease, Chromatography

Qualifications Required for Exam

Class I

- ◆ High school diploma, GED or equivalent
- ◆ 1 year of acceptable environmental laboratory experience (**2080 hours**)

Class II

- ◆ High school diploma, GED or equivalent
- ◆ 3 years of acceptable environmental laboratory experience (**6240 hours**)

Class II

- ◆ High school diploma, GED or equivalent
- ◆ 900 contact hours of post high school education in the environmental control field, engineering, or related science
- ◆ 4 years of acceptable environmental laboratory experience (**8320 hours**)

Class IV

- ◆ High school diploma, GED or equivalent
- ◆ 1800 contact hours of post high school education in the environmental control field, engineering, or related science
- ◆ 4 years of acceptable environmental laboratory experience (**8320 hours**)

Certification News

- ◆ For consistency of Statewide Certification Programs offered throughout the country, the Voluntary Wastewater Laboratory Certification Program will be adopting the revised requirements for certification set forth by ABC (Association of Boards of Certification).
- ◆ Starting with the Spring of 2007, all Wastewater Laboratory candidates will be required to complete the levels of certification in sequential order. Therefore, all Analysts will be required to start at Class I regardless of years of education or experience. Candidates will be required to progress through the levels in order until they obtain the highest desired license.
- ◆ The Voluntary Wastewater Analyst Program will no longer recognize Analyst-In-Training Status. All Candidates must possess the required experience and education necessary for each certification level before taking the test.