

FUNDAMENTAL LABORATORY TECHNIQUES

COURSE DESCRIPTION: This is an entry level course designed for people with little or no laboratory experience.

MAJOR TOPICS:

- Analytical Standards & Reagents
- Balances
- Laboratory Ware
- Volumetric Devices
- Temperature Measurement
- Preparing Solutions & Dilutions
- Calibration

TARGET AUDIENCE: New and inexperienced lab analysts or operators.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is an 18 hour (3-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 12 certification renewal points.



WASTEWATER LABORATORY FOR ANALYSTS

COURSE DESCRIPTION: This course is designed to educate and assist those people currently working in a wastewater laboratory or for certification exam preparation.

MAJOR TOPICS:

- Plant Operation
- Sampling
- Process Control vs. Regulatory Reporting
- Solution Chemistry
- Calibration
- QA/QC
- Safety
- Hands on Procedures

TARGET AUDIENCE: Those who are currently employed in a laboratory or those with previous lab experience and preparing for the Wastewater Lab Analysts certification exam.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 27 hour (5-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 12 certification renewal points.



WASTEWATER LABORATORY FOR OPERATORS

COURSE DESCRIPTION: This course is designed for people currently working in wastewater treatment operations and preparing for the Class II Wastewater Treatment Plant Operator certification exam.

MAJOR TOPICS:

- Plant Operation
- Sampling
- Process Control vs. Regulatory Reporting
- Solution Chemistry
- Calibration
- QA/QC
- Safety
- Hands on Procedures

TARGET AUDIENCE: Those who are currently employed in wastewater treatment operations and preparing for the Class II Wastewater Treatment Plant Operator certification exam.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 24 hour (5-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 12 certification renewal points.

WATER LAB FOR ANALYSTS

COURSE DESCRIPTION: This course is designed to educate and assist those people currently working in a water laboratory or for certification exam preparation.

MAJOR TOPICS:

- Plant Operation
- Sampling
- Process Control vs. Regulatory Reporting
- Solution Chemistry
- Calibration
- QA/QC
- Safety
- Hands on Procedures

TARGET AUDIENCE: Those who are currently employed in a laboratory or those with previous lab experience and preparing for the Water Lab Analysts certification exam.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 27 hour (5-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 12 certification renewal points.



WATER LAB FOR OPERATORS

COURSE DESCRIPTION: This course is designed to educate and assist those people currently working in water treatment operations and preparing for the Class II Water Treatment Plant Operator certification exam.

MAJOR TOPICS:

- Plant Operation
- Sampling
- Process Control vs. Regulatory Reporting
- Solution Chemistry
- Calibration
- QA/QC
- Safety
- Hands on Procedures

TARGET AUDIENCE: Those who are currently employed in water treatment operations and preparing for the Class II Water Treatment Plant Operator certification exam.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 24 hour (5-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS:

This course has been approved for 12 certification renewal points.

MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

COURSE DESCRIPTION: This course is designed for people currently working in a microbiology laboratory analyzing drinking water or those who have previous laboratory experience.

MAJOR TOPICS:

- Lab Facilities & Equipment
- General Lab Practices
- Analytical Methodology
- Sample Collection, Handling & Preservation
- Quality Assurance
- Record Keeping
- Response to Results
- Approved Coliform Testing Procedures will be Performed in the Lab

TARGET AUDIENCE: Those who are currently employed in a microbiology laboratory or those with previous lab experience.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 15 hour (2 1/2-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS:

This course has been approved for 12 certification renewal points.



APPLIED LABORATORY MATHEMATICS

COURSE DESCRIPTION: This course is designed to expand on math and chemistry subjects related specifically to laboratory functions.

MAJOR TOPICS:

- Step by step approaches to math problems
- Conversions
- Basic Chemistry
- Sample Problems
- Review of Sample Problems & Correct Approach of Those Problems

TARGET AUDIENCE: Anyone with a desire to increase their math related skills as applied to water/wastewater laboratory.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 6 hour (1-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 6 certification renewal points.

LABORATORY QUALITY ASSURANCE

COURSE DESCRIPTION: This course is designed to explain topics related to Quality Assurance and to assist in better understanding a working Quality Assurance program.

MAJOR TOPICS:

- QA/QC
- Lab Organization
- Sampling
- Analytical Methodology
- Calibration
- Preventative Maintenance
- Data Quality Objectives
- Corrective Action

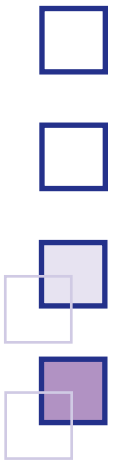
TARGET AUDIENCE: Those who are currently employed in a laboratory or those with previous lab experience.

PREREQUISITES: Previous lab experience would be helpful in completing this course.

COURSE LENGTH: This course is a 6 hour (1-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 6 certification renewal points.





EVALUATION OF LABORATORY DATA

COURSE DESCRIPTION: This course is designed to educate analysts in evaluation of lab data and to help ensure the results produced are legally reportable.

MAJOR TOPICS:

- Defining Terms
- Available References
- Quality Control
- Acceptance Limits
- Evaluation of Lab Data

TARGET AUDIENCE: Those who are currently employed in a laboratory or those with previous lab experience.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 3 hour (1/2-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 2 certification renewal points.

LABORATORY ANALYST EXAM PREPARATION

COURSE DESCRIPTION: This course is designed to help prepare for the laboratory analyst certification exam or for assistance to those taking the operator certification exams.

MAJOR TOPICS:

- “Needs to Know”
- References & Study Materials
- How to Study Effectively
- Strategies for Passing Multiple Choice Exams
- Examples of the Type Questions Encountered on the Exam

TARGET AUDIENCE: Those trying to obtain certification.

PREREQUISITES: Basic Math, Chemistry and Biology skills are essential for successful completion of this course.

COURSE LENGTH: This course is a 3 hour (1/2-day) course that meets the training requirements set forth by the Certification Board.

CERTIFICATION RENEWAL POINTS: This course has been approved for 3 certification renewal points.