

WASTEWATER CERTIFICATION REVIEW / INDUSTRIAL

Approved for 12 technical hours / Wastewater

Review topics directly related to the Industrial exam questions. Topics discussed include: Types of industrial wastewater, waste segregation, flow equalization, water usage, neutralization and hydroxide precipitation, sulfide precipitation, electroplating and metals removal, cyanide destruction and hexavalent chromium reduction. ORP and pH monitoring equipment. Filtration and membrane systems. Biological treatment systems, activated sludge and trickling filters and solids handling. Laboratory tests and troubleshooting. Practice multiple choice questions and learn how to find the correct answer. Bring your questions and know previous exam questions.

WASTEWATER CERTIFICATION REVIEW / MUNICIPAL

Approved for 12 technical hours / Wastewater

Review topics directly related to the Municipal exam questions. Topics discussed include: Screening, grit removal, pre-aeration, primary clarifier design and troubleshooting, trickling filters and RBCs, activated sludge process and troubleshooting. Package plants and oxidation ditches, advanced waste treatment, filtration, nitrogen and phosphorous removal, effluent disinfection, chlorination and ultra violet irradiation, laboratory tests and troubleshooting. Practice multiple choice questions and learn how to find the correct answer. Bring your questions and know previous exam questions.

WASTEWATER MATHEMATICS

Approved for 6.0 technical hours / Wastewater

Wastewater Mathematics class is an excellent class to practice solving wastewater treatment plant arithmetic problems. The class addresses typical wastewater plant problems such as flows, grit channels, sedimentation tanks and clarifiers, trickling filters, activated sludge, chlorination, chemical doses, and design problems. Learn how to use basic conversion factors and formulas to solve these problems. The class is also an excellent preparation for the State exam. Attend the class and prepare for the test. Included: **Free** Wastewater Mathematics manual.

ACTIVATED SLUDGE-BIOLOGICAL PROCESS CONTROL

Approved for 6 technical hours/Wastewater

This class addresses several critical components of the activated sludge process. Floc Formation reviews the types of floc particles and the changes that affect floc formation. Topics include: Microbiology of activated sludge. Toxicity by heavy metals. Removing nitrogen in activated sludge systems. Effects of polymer and coagulant aids on the treatment. Nitrification and denitrification review the causes and control of these biological processes. Introduction to bioaugmentation reviews the concepts and costs associated with the addition of bacteria to the treatment process.

CHEMICAL TREATMENT

Approved for 6 technical hours /Water & Wastewater

This class presents the important chemical reactions used in the treatment of water and wastewater. Learn how the pH has a great impact in removing pollutants from water and wastewater. Select the correct chemicals and learn about oxidation, reduction, neutralization and displacement. Determine Chemical dosages through jar tests. Discussions include: polymers and coagulants usage.

REGISTRATION

Register Online

At: <http://www.approvedce.com/classes.htm>

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Complete the registration form and return to our office before the class date. Please don't send checks in the mail. See Method of payment.

Mail completed form to:
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Indianapolis, IN 46217

Method of Payment

You may pay by credit card or electronic check online at www.approvedce.com or by calling **877.241.9858**.

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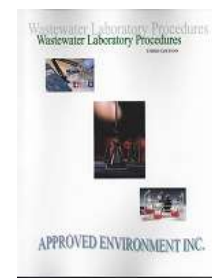
BOOKSTORE



This book contains municipal, industrial, laboratory, safety and technical topics that are directly related to the test. Included in the book are 700 multiple-choice questions and answers. In addition to the topics mentioned above the Complete Edition includes the following topics: wastewater mathematics, introduction to the national pretreatment program and security topics related to protecting your community's assets. The cost of the book is \$65.00 plus \$10.00 S&H. Order your copy when you register online and save \$5 on S & H.

Wastewater Certification Review Textbook

This book contains municipal, industrial, laboratory, safety and technical topics that are directly related to the test. Included in the book are 700 multiple-choice questions and answers. In addition to the topics mentioned above the Complete Edition



This book provides critical and important instructions and tips on how to perform laboratory analysis on wastewater and develop a laboratory Quality Assurance Plan. In addition, the manual includes a large section on microscopic examination of activated sludge to evaluate operational and plant upset conditions. Special section on laboratory safety and microbes present in wastewater. Final Exam included. Test your knowledge and prepare for the laboratory certification exam.

\$45 (Free Shipping).

Wastewater Laboratory Procedures Textbook

This book provides critical and important instructions and tips on how to perform laboratory analysis on wastewater and develop a laboratory Quality Assurance Plan. In addition, the manual includes a large section



and equipment used in the treatment processes. Advanced treatment technology such as membrane filtration, UV and Ozone applications, solid handling systems and dewatering equipment are included. The cost of the book is **\$50 (Free Shipping).**

Wastewater Treatment Operation Textbook

This book is a presentation of treatment operations of water and wastewater in details. Pictures and diagrams are included to describe systems

Registration Form

Organization Name _____

Billing Address _____

Student Name _____

Address _____

City _____

State _____ ZIP _____

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Fall 2016

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September 19 & 20 9:00 a.m. – 4:00 p.m.

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Wastewater Mathematics \$145

September 21 9:00 a.m. – 4:00 p.m.

Bookstore

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Wastewater Laboratory Procedures textbook
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Order all three books and save
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Payments must be received before the class date.
Maps and directions to class location will be sent
with confirmation letters

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Water and Wastewater Certification and Continuing Education Seminars

FALL 2016

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