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Revised: April 2020 State of Florida . Department of Environmental Protection . Drinking Water & Domestic Wastewater . Water Distribution System Operator . Program Handbook . Operator Certification Program. 2600 Blair Stone Rd. MS 3506, Tallahassee, FL 32399-2400 . Telephone (850) 245-7500 Fax (850) 245-8410 . OCP Home Page. Customer Satisfaction Survey

State of Florida Department of Environmental Protection

Department of Environment, Great Lakes & Energy - Drinking Water Operator Certification and Training Program - This program provides information on how

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to get certified, an explanation of CECs, a description of Operator Classifications, and a schedule of upcoming training courses for Drinking Water and Wastewater Operators.

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operation, Pretreatment, Coagulation and flocculation, Sedimentation, Filtration, Disinfection, Softening, Specialized treatment, Membranes, Testing, Process control and instrumentation, Safety, Record keeping and reporting, The revisions to Water Treatment Operator Training Handbook, Third Edition, were made with the need-to-know criteria for operator certification in mind. In addition to updating regulatory, technology, and process information and references, this edition includes additional information on membrane systems. It also includes a greatly expanded chapter on testing and laboratory procedures with testing protocol for most water quality parameters and common contaminants.

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Spellman's Standard Handbook for Wastewater Operators Volume 1 Fundamental-Level provides information and unit process trouble-shooting guidance required on a daily basis, not only by the plant manager, plant superintendent, chief operator, lab technician, maintenance operator, but more importantly by and for the plant operator, and those in preparation for taking the entry-level Class IV/Class III or Grade I/II operator examinations. This handbook was prepared to help operators obtain licensing and to operate wastewater treatment plants properly. It

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can be used as a textbook in technical training courses in technical schools and at the junior college level. Spellman's Standard Handbook for Wastewater Operators is the first volume of a new study guide and readily accessible source of information for review in preparing wastewater personnel for operator certification and licensure. These handbooks are resource manuals and troubleshooting guides that contain wastewater treatment information, data, operational material, process control procedures and problem solving, safety and health information, new trends in wastewater treatment administration and technology, and numerous sample problem-solving practice sets, many based on actual tests. The

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Handbooks' goal is to enhance the understanding, awareness and abilities of practicing operators and those who want to become operators. The three volumes are designed to build on each other, providing increasingly advanced information. For persons preparing for operator's licensing, this is critical, because wastewater treatment is a complex process. For licensed veteran operators, continuous review is also critical, because wastewater treatment is an evolving, dynamic, ever-changing field. Spellman's Standard Handbooks provide the vehicle for reaching these goals.

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- Wastewater technologies and math presented in basic, understandable terms
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- Questions and quizzes designed for exam preparation
- Numerous drawings and solved problems illustrating key ideas

This book gives plant operators and students of wastewater a simple and math-based introduction to all major unit processes in the modern wastewater treatment plant. Written with plant personnel in mind, the book furnishes easy-to-understand explanations of each step in treating wastewater--from screening, through

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sedimentation and settling, to activated sludge. The work is designed for operators and managers to run plants and to advance their careers by passing state licensure exams. Sample questions and problems in the text have been selected to prepare for operator examinations. Each chapter of the book is devoted to fully clarifying a unit process, and includes sample questions and problems. The book opens with a review of math, as this is applied to wastewater calculations. Many sample problems throughout give the reader an opportunity to practice and apply math formulas in realistic wastewater situations. Step-by-step descriptions of math problems show the reader how to arrive at the correct answer. Many practical

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tips and sample quizzes are furnished to help operators studying on their own and in courses. Written in a readable, non-technical style, this text is designed to explain wastewater technologies using down-to-earth approaches comprehensible to students. At the same time, it provides complete definitions of the key technical terms a wastewater operator needs to know

Handbook of Water and Wastewater Treatment Plant Operations the first thorough resource manual developed exclusively for water and wastewater plant operators has been updated and expanded. An industry standard now in its third edition, this book

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addresses management issues and security needs, contains coverage on pharmaceuticals and personal care products (PPCPs), and includes regulatory changes. The author explains the material in layman's terms, providing real-world operating scenarios with problem-solving practice sets for each scenario. This provides readers with the ability to incorporate math with both theory and practical application. The book contains additional emphasis on operator safety, new chapters on energy conservation and sustainability, and basic science for operators. What's New in the Third Edition: Prepares operators for licensure exams Provides additional math problems and solutions to better prepare users for certification exams Updates

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all chapters to reflect the developments in the field Enables users to properly operate water and wastewater plants and suggests troubleshooting procedures for returning a plant to optimum operation levels A complete compilation of water science, treatment information, process control procedures, problem-solving techniques, safety and health information, and administrative and technological trends, this text serves as a resource for professionals working in water and wastewater operations and operators preparing for wastewater licensure exams. It can also be used as a supplemental textbook for undergraduate and graduate students studying environmental science, water science, and

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AWWA's most popular handbook for distribution operator personnel is an indispensable reference for operators and supervisors alike on water distribution system operation and equipment. This fourth edition is based on the operator certification knowledge requirements included in the Associated Boards of Certification (ABC) Need-To-Know criteria, as well as that of several state certification boards (e.g. California, Pennsylvania, and Texas). Several new chapters cover topics that have emerged since the publication of the last edition, and others, including the regulatory overview chapter, were revised

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extensively. New chapters describe the management approach to distribution system operation and the operational practices operators can use to improve system performance. The disinfection of pipelines and storage facilities is now included as its own chapter. And the math calculations that distribution system operators need to know are included as concrete examples of what operators need to know.

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explains the material in easy-to-understand language. It also provides real-world case studies and operating scenarios, as well as problem-solving practice sets for each scenario. Features: Updates the material to reflect the developments in the field Includes new math operations with solutions, as well as over 250 new sample questions Adds updated coverage of energy conservation measures with applicable case studies Enables users to properly operate water and wastewater plants and suggests troubleshooting procedures for returning a plant to optimum operation levels Prepares operators for licensure exams A complete compilation of water science, treatment information, process control procedures, problem-

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solving techniques, safety and health information, and administrative and technological trends, this text serves as a resource for professionals working in water and wastewater operations and operators preparing for wastewater licensure exams. It can also be used as a supplemental textbook for undergraduate and graduate students studying environmental science, water science, and environmental engineering.

Retaining the same successful and proven format used in the bestselling first edition, Spellman's Standard Handbook for Wastewater Operators: Volume I, Fundamental Level, Second Edition contains

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the necessary information to successfully study for and pass currently administered certification examinations. Primarily designed to provide a readily accessible, user-friendly source of information for review in preparing for the first levels of licensure, this volume also sets the stage for Volumes II and III. Revised and expanded with additional information and example problems, changes to this volume include: A new chapter on basic microbiology More than double the amount of water hydraulics and pumping information More operational computation problems and examples in all major topic areas The book provides review questions and answers as well as a comprehensive practice examination for

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measuring the level of knowledge attained through study, on the job experience, and other sources. By using the final examination as a measuring stick, readers can determine strong and weak points.

Appendix C contains a formula sheet to be used for reference when taking the final examination.

Constructed in a way that allows readers to build their knowledge base, step by step, page by page, as they progress through the material, the handbook represents a basic summary of expert information and includes references to many other sources. Also available as a volume in Spellman's Standard Handbook for Wastewater Operators, Second Edition (3 Volume Set)

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