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Kenneth D. Kerri) Nitrification in nature is a two-step oxidation process of ammonium (NH_4^+) or ammonia (NH_3) to nitrate (NO_3^-) catalyzed by two ubiquitous bacterial groups.

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on the size and extent of the system, it is necessary to determine in advance exactly how much staff is necessary for the operation of the system and how work-intensive the operation will be. Depending on the system, our staff is on site every day to ensure smooth operation.

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What is the primary objective of an operator operating a wastewater treatment plant? 1. To achieve the highest level of certification possible 2. To convince the public that the operators deserve top pay 3. To keep the sewer-user charges as low as

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possible 4. To protect the receiving water
quality by continuous and efficient plant
performance

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The first unit operation generally
encountered in wastewater treatment

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Plants is screening. Screening removes
larger materials and coarse solids from
raw wastewater metals to prevent damage
and clogging of downstream equipment,
piping, and appurtenances. Two types of
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WASTEWATER TREATMENT PLANTS:

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Operation of Wastewater Treatment
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Upon successful completion of this course, students will be able to: 1) Explain in detail, the purpose of each advanced wastewater treatment plant process.

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wastewater treatment, so that a conscious selection, design and operation of the wastewater treatment process may be practised. Theory is considered essential

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Practice is associated to the direct application of the concepts for conception, design and operation.

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Plants and reuse * On-site treatment and disposal of small flows * Wastewater treatment plants should be designed so that the effluent standards and reuse objectives, and biosolids regulations can be met with reasonable ease and cost. The design should incorporate flexibility for dealing with seasonal changes, as well as long-

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term changes in wastewater quality and future regulations. Good planning and design, therefore, must be based on five major steps: characterization of the raw wastewater quality and effluent, pre-design studies to develop alternative processes and selection of final process train, detailed design of the selected

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alternative, construction, and operation and
maintenance of the completed facility.
Engineers, scientists, and financial
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architecture, and economics to carry out
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wastewater treatment plant. The objective of this book is to present the technical and nontechnical issues that are most commonly addressed in the planning and design reports for wastewater treatment facilities prepared by practicing engineers. Topics discussed include facility planning, process description, process selection

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Plants, mass balance calculations, design
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maintenance, trouble shooting, equipment
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for each treatment process. Thus
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Plants incorporate flexibility for dealing with seasonal changes, as well as long-term changes in wastewater quality and future regulations. Good planning and design, therefore, must be based on five major steps: characterization of the raw wastewater quality and effluent, pre-design studies to develop alternative

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delineation of such information for use by students and practicing engineers is the main purpose of this book.

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