



Operator Certification & Engineering Review

FREE Zoom—Mentoring Session

Prepares operators to take state certification exams for wastewater treatment. Good for non-operators such as managers or engineers.

Includes: Help for students to find and understand correct answers using questions from past certification exams .

Designed to help operators and engineers reach their goals for professional certification. Targets the needs for Grade 1 and 2 Operator Certification. The review has also benefitted non-operators , plant managers and engineers . The approach to learning is to use past actual exam questions to bring participants up-to-speed as quickly as possible. Background presentations are kept short and inter-active Q/A is used as the main approach for knowledge transfer.

Answer these Example Questions:

1. The main function of a primary clarifier is to remove: nitrogen, suspended solids or BOD?
2. Typical hydraulic detention time in an aeration basin is: 2 hrs, 6 hrs or 16 hrs?
3. Y/N: Does ultraviolet radiation leave a chemical residue?

Review Session Descriptions—Presented as Interactive Q/A—by raising of virtual hands



Training whether it be to engineers/managers (photo—top page) or to operational staff (above) is best done in person. When that is not possible the 3 Review Sessions Described to the right can provide a virtual alternative.

1. Operation Entry and Mid Level: Training involves illustrations to get the bigger picture of wastewater treatment. Principles and objectives of wastewater treatment are presented. Commonly used water and wastewater related terms are explained. Topics include collections, wastewater sources, preliminary and primary treatment. Essential information on key biological processes is provided.

2. Operation Mid and Senior Level: Focuses on materials associated with process loading and performance. Along with some entry level material Q's include those requiring mid-level math such as process loading (F/M, MCRT, and hydraulic/organic loading). Illustrations are provided regarding proper action when facing changes in conditions or upset. Added topics are disinfection, solids handling and advanced treatment.

3. Operational Management and Engineering: Involves reasoning and explaining operational conditions and plant management. Participants should have available the use of a hand calculator. Added topics are health and safety plus life-cycle analysis.