WW 103

● ● ● Advanced 45 hours 3 modules · 21 lessons

Solids, Laboratory, Equipment & Safety

Solids handling, digestion and biosolids; sampling, laboratory analysis and process monitoring; and equipment O&M, hydraulics, safety and security.

45	3	21	1,332	105	9	1,166
HOURS OF TRAINING	MODULES	LESSONS	STUDY CARDS	SCENARIOS	3D SIMULATORS	EXAM QUESTIONS

COURSE OBJECTIVES

By the end of this course you will be able to:

1. Calculate dry-pound mass balances through thickening, digestion and dewatering.
2. Operate anaerobic digesters safely, control volatile acids and alkalinity and manage digester gas.
3. Optimize belt-press and centrifuge dewatering and polymer use and manage biosolids per 40 CFR 503.
4. Collect samples correctly and run BOD, TSS, DO, pH and settleometer tests with QA/QC.
5. Compute pump TDH, horsepower, cycling and lift-station drawdown.
6. Apply confined-space, lockout/tagout, gas-detection and rescue procedures.
7. Maintain equipment with PM programs and understand security and emergency response.

WHAT YOU WILL LEARN

Solids & digestion
Thickening, anaerobic digestion, gas safety and biosolids.

Dewatering
Belt presses, centrifuges, polymer and cake solids.

Laboratory & sampling
Composites, holding times, BOD and QC.

Pumps & hydraulics
TDH, power and cycle times.

Safety
Wet-well confined space, H_2S and LOTO.

Equipment O&M
PM, lubrication and reliability.

MAJOR TOPICS COVERED

Module 7	Solids Handling, Digestion & Biosolids	7 lessons
Module 8	Laboratory Analysis, Sampling & Process Monitoring	7 lessons
Module 9	Equipment O&M, Pumps, Hydraulics, Safety & Security	7 lessons

COURSE HIGHLIGHTS

- **45 hours** of structured, self-paced instruction with active-time tracking.
- **9 interactive 3D simulators** — rotate, explode and cut away real equipment, then change the controls and watch the numbers respond.
- **105 field scenarios** with background, decision points and worked answers.
- **1,332 study cards**, 21 printable checklists and hands-on calculators.
- **1,166 practice questions** with timed, exam-style mock tests.

WHO IT'S FOR

Operators preparing for higher classes and plant leaders responsible for solids, laboratory, equipment and safety programs.

BEFORE YOU START

WW 101 and WW 102 recommended.

WHERE TO NEXT

Mock exams and license-class review in the Exam prep area.

Start learning Create a free account at tryetech.com, open **Wastewater Operator Prep** and begin with Module 7.