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## Training Courses

### Wastewater Operator Training Courses

Aqua Resources is teaming up with Enviro/Sci Corp. to provide four informational training sessions for wastewater treatment operators, with prominent water and wastewater expert Bill Smith as part of the training team. Please make note of these courses and their respective dates.

- **Sequencing Batch Reactors 101\*** | 6 Contact Hours | August 5, 2015
- **Return Activated Sludge 101\*** | 8 Contact Hours | September 9, 2015
- **Basic Hydraulics** | 4 Contact Hours | October 14, 2015
- **Wastewater Modeling for Plant Operation & Troubleshooting\*** | 5 Contact Hours | November 4, 2015

*\*Courses written and developed by Bill Smith*

All courses will be held at the Yanora Enterprises office at 141 R. South Main Street, Pittston, PA. If you have any questions, please call 1.888.843.7155.

Download and mail [this form](#) to register.

#### Course descriptions:

##### Sequencing Batch Reactors 101





**Date:** 8/5/2015

**Location:** 141 S. Main Street – Rear Entrance, Pittston, PA 18640

**Price:** \$185

**Pennsylvania DEP Approved:** 6 Contact hours

The course is focused on the design, theory and operation of Sequencing Batch Reactors with the emphasis on the mathematics, sampling and analysis required in order to diagnose and operate a SBR process.

Topics Covered Include:

- Theory of a Sequencing Batch Reactor
- Difference between a Sequencing Batch Reactor and Flow Through Activated Sludge process
- Hydraulics of a Sequencing Batch Reactor
- Batch Volumes
- Dilution Effects on parameters
- Kinetics of Biological reactions
- Operation of a Sequencing Batch Reactor
- Process Optimization of a Sequencing Batch Reactor
- Sampling & Analysis for Operation & Troubleshooting of a Sequencing Batch Reactor

**This course is intended for wastewater treatment plant operators, especially those with BNR, SBR and/or less than 500,000 gpd plants.**

[Click here to register.](#)

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### Return Activated Sludge 101

**Date:** 9/9/2015

**Location:** 141 S. Main Street – Rear Entrance, Pittston, PA 18640

**Price:** \$245

**Pennsylvania DEP Approved:** 8 Contact hours

In the activated sludge process return activated sludge control and its impacts on other process control parameters, e.g. settling characteristics, sludge age is critical. The methods for determining the return activated sludge flow rates are explained and the mathematics of calculations are demonstrated. The purpose of the course is to expose the operator the different ways the return sludge flowrate can be determined so that the operator can better control the activated sludge process. Interactive calculations and graphics are employed to keep the interest levels elevated for an engaging and informative learning experience.

Topics Covered Include:

- Introduction to how a wastewater treatment operator fits into the big picture of facility compliance
- Interactive review of the activated sludge process
- Interactive presentation of the methods for determining return activated sludge flow
- Line calculations

**This course is primarily intended for wastewater treatment plant operators, while administrators, owners, and design engineers will benefit as well.**

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### Basics of Pumps and Hydraulics

**Date:** 10/14/2015

**Location:** 141 S. Main Street – Rear Entrance, Pittston, PA 18640

**Price:** \$125

**Pennsylvania DEP Approved:** 4 Contact hours

The primary purpose of Module 9: Basics of Pumps and Hydraulics is to provide an overview of pumps and hydraulics as they pertain to wastewater plant operation.

Topics Covered Include:

- Basic Hydraulics
- Open Channel (Gravity) Flow
- Pressure Flow in Force Mains
- Pump Types and Applications

**This course is intended for all manner of wastewater treatment operators.**

[Click here to register.](#)

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### Wastewater Modeling for Plant Operation & Troubleshooting

**Date:** 11/4/2015

**Location:** 141 S. Main Street – Rear Entrance, Pittston, PA 18640

**Price:** \$155

**Pennsylvania DEP Approved:** 5 Contact hours

The use of basic mathematical models as implemented in spreadsheet, mathematical software and EnviroSim's BioWin software will be presented. The use of the models to benchmark and reality check plant performance will be demonstrated in order to give the operator an overview of what supporting tools are available to improve plant performance and evaluation.

Topics Covered Include:

- Introduction to how a wastewater treatment operator fits into the big picture of

facility compliance

- Interactive review of the spreadsheet modeling
- Interactive presentation of the methods of employing mathematical software for model development
- Overview of a high end mathematical model for complete wastewater treatment plant simulation

**This course is intended for wastewater treatment plant operators, especially those with BNR, SBR and/or less than 500,000 gpd plants.**

[Click here to register.](#)

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**About Bill Smith & Enviro/Sci Corp.**

For over 40 years, Bill has serviced a broad range of clients including developers, engineering companies, industrial companies, financial institutions, as well as several of the largest utilities in the United States. He has been on the leading edge of technology in the wastewater field and most recently is working on wastewater-to-energy from sewage and removal of pharmaceuticals from wastewater and math modeling for plant operation. Bill is a recognized expert in the development of innovative solutions for wastewater optimization and compliance, as well as new methodologies for water and wastewater treatment. He is a licensed operator, has authored three of these courses, and holds eleven patents for sewage treatment.

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