

About this seminar:

Math is a basic skill that is necessary for the function of any wastewater plant.

This course is a great follow-up to Basic WW Math I.

It will cover much of the basic math and calculations used regularly in wastewater treatment.

This course will assist anyone preparing to take a State of

Michigan Wastewater Operators certification exam.

It will also contribute to the building of a solid foundation for career advancement in this field.

Who should attend?

- new and aspiring wastewater treatment plant operators
- those preparing for certification exams
- persons who would benefit from a math refresher

0.5 Wastewater Water CEC's
DEQ Course Code: 1787
Course Category: Technical

Your online registration OR completed form along with payment must be received in the MWEA Office by:

7 days before the session you choose

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U.S. POSTAGE PAID
LANSING, MI
PERMIT NO.1096

Michigan Water Environment Association

P O Box 397

Bath, MI 48808

Basic Wastewater Math II

Kalamazoo

April 28, 2009

Grayling

April 29, 2009

YCUA, Ypsilanti

May 5th, 2009

Mason

May 7th, 2009

Please bring a Calculator

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Seminar Locations:

Kalamazoo

Kalamazoo Reclamation Plant
1415 N. Harrison, K'zoo, MI 49008

Grayling

Ramada Inn
2650 South I-75 Business Loop
Grayling, MI 49738

YCUA, Ypsilanti

Ypsilanti Community Utilities Authority
2777 State St. Ypsilanti, MI 48198

Mason

Mason Fire Station
221 W. Ash St., Mason, MI 48854

Please bring a Calculator

Jess Neff and Jim King,
the two authors and presenters of this course, combine for 57 years of experience in the wastewater treatment industry.

Agenda
Basic Wastewater Math II

- 8:00** Registration (coffee)
- 8:30** **Part I**
Dimensional Analysis
Algebra
Metric and English Conversions
- 10:00** Break
- 10:15** **Part II**
Mean Cell Residence Time
Solids Loading Rates
Hydraulic Loading Rates
- 11:45** Lunch (provided)
- 12:30** Weir Overflow Rates
- 1:00** **Part III**
Removal Calculations
- 1:45** Break
- 2:00** Pump Head Calculations
- 2:45** Q & A – review of problem areas
- 3:15** Complete evaluations and leave

IMPORTANT NOTE: This is the same course that was offered by the same name in 2008. Operators may only receive CEC credit for this course **once** during their certification renewal cycle. Most MWEA seminars have agendas that change every year and therefore can be completed for CEC credit once a year. This course however, may only be taken for CEC credit **once** during a certification renewal cycle.

Cancellation Policy:
If MWEA cancels, full refunds will be issued. If registrant cancels 10 days or more before program, a 100% refund will be issued. If cancellation is less than 10 days before program, fees based on expenses will apply. No refunds are made if cancellation is after program date. Registration can be transferred to another person in your organization anytime. All changes must be communicated to the MWEA office at 517-641-7377.

Basic Wastewater Math II
Circle one: Kalamazoo – April 28 Grayling – April 29 YCUA – May 5 Mason – May 7
You can also register online at www.mi-wea.org.

Name: _____

Employer: _____

Address: _____

City, State, Zip: _____

Daytime Telephone: _____

Email: _____

Registration confirmations are sent via email only

Check this box if **NEW** - email Address

Check this box for a Vegetarian meal.

MWEA/WEF Member \$100, Membership #: _____

Nonmember \$148 (Want a FREE membership – see below)

Nonmembers: If you wish to receive a one-year complimentary MWEA membership, check this box.

Payment Options
Check Enclosed \$ _____ (payable to MWEA)

Charge \$ _____ Visa MasterCard Am. Express

Account #: _____ Exp: _____

Please include billing address with credit card.

Signature: _____

Tracking and documenting your Continuing Education Credits is important for all Certified Wastewater Treatment Plant Operators. **MWEA can help!** We can provide a letter to document your CECs for MDEQ. Contact our office for this valuable member benefit!

Registration, Payment and Additional Information, contact:
MWEA Office
PO Box 397 ♦ Bath, MI 48808
517-641-7377 Phone ♦ 517-641-7388 Fax
mwea@mi-wea.org ♦ www.mi-wea.org