**Instrumentation for Water, Wastewater & Utility Operations**

**January 21, 2016**  
Course code: EO0701CA16  
Instructor: Sheldon Kay  
Registration fee: $290  
Multi person fee: $250  
NJ licensed water operators: $145 (T, W or VSWS only)  
6 TCHs for NJ water and wastewater license holders  
Approval #01-010103-30

Instrumentation - from flow meters to pressure gauges and everything in between - plays an integral role in many workplaces. Do you know the why's and how's behind the equipment? If not, this course may be for you! It will present an introduction to the fundamentals of instrumentation, including vocabulary and nomenclature. Specific topics include: basic formulae, conversion, and calculations, pressure and velocity, measuring and transmitting devices, proper equipment usage and safety.  

A great introduction or refresher!

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**Basic Electrical Print Reading**

**February 9, 2016**  
Course Code: EO0708CA16  
Instructor: Sheldon Kay  
Registration fee: $290  
Multi person fee: $250  
NJ licensed water operators: $145 (T, W or VSWS only)  
6 TCHs for NJ water and wastewater license holders  
Approval #01-010110-30

This course presents the basic skills required for reading and interpreting electrical prints and diagrams. A great introduction or refresher! Topics include: schematics, diagram logic, types and uses of diagrams/schematics, symbols and markings, wiring diagrams, scales and conversions.
Ladder Logic

Course Code: EO711CB16
Instructor: Terry Tomsky
Registration fee: $380  Multi person fee: $350
NJ licensed water operators: $190 (T, W or VSWS only)
12 TCHs for NJ water and wastewater license holders
Approval #01-090005-30

Motor Control Circuits: Wiring to Troubleshooting

Course code: EO0709CB16
Instructor: Terry Tomsky
Registration fee: $495  Multi person fee: $450
NJ licensed water operators: $247.50 (T, W or VSWS only)
18 TCHs for NJ water and wastewater license holders
Approval #01-090006-30

This course will present the theory of control operation and the proper techniques for diagramming control circuits. Once you are familiar with the basic circuit, you will be shown how to apply the same theories to more complex systems to quickly troubleshoot and repair equipment. Topics will include: basic control circuit and holding circuit wiring, permissive circuits and light indication wiring, time interface circuits, electrical interlock interfacing circuits and timers.

PLEASE BRING A VOLT/OHM METER TO CLASS!!

O & M of Pumps

March 8-10, 2015
Course code: EO0710CD16
Instructors: Terry Tomsky & Sean Irwin
Registration fee: $495  Multi person fee: $450
NJ licensed water operators: $247.50 (T, W or VSWS only)
18 TCHs for NJ water and wastewater license holders
Approval #01-090010-30

This is, without a doubt, our most popular hands-on course! You will learn and practice accepted procedures for both daily and long-term maintenance of pumps and related equipment. Proactive maintenance and a thorough understanding of the inner workings of a pump can save time and increase the efficiency of your operation. Topics will include: types and uses of pumps, terms and classifications, mechanical seals, pump head calculations and performance.

PLEASE BRING YOUR VOLT/OHM METER!!

Contact Information - Program Coordinator: Carol Broccoli, 848-932-7207; Administrative Assistant: Claudine Oleskin, 848-932-7204
Payment Policy - All students must have prearranged for payment to be admitted to the class.
Cancellation & Substitution Policy - Registrants may withdraw in writing from a class up to (3) three full working days before a course begins and receive a full refund, less any materials fee or as otherwise noted on the course webpage. If the Office of Continuing Professional Education is not notified in writing at least three working days prior to the start of class, registrants may be responsible for the full fee. Substitutions are permitted.
Accommodations for Individuals with Disabilities - If you require special assistance, please notify our office when you register or no less than one week before the course starts. Every effort will be made to accommodate reasonable requests.

www.cpe.rutgers.edu/electrical
Office of Continuing Professional Education

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