



## COWA 2012 Professional Training Calendar

To learn more about partnering with COWA and hosting an event email [cowaemail@gmail.com](mailto:cowaemail@gmail.com) or call 530 513- 6658

Dates	Event & Trainers	Partner & Location
<b>Feb. 28 &amp; 29</b> 8AM – 5PM	<b>NAWT OWTS Inspection Certification</b> <i>Instructors: Nick Weigel P.E. &amp; Mike Treinen R.E.H.S.</i>	Van Nuys, CA
<b>March 1</b> 8AM – 5 PM	<b>Vacuum Truck Operator Training</b> <i>Instructors: Bruce Fox</i>	Malibu, CA
<b>March 15</b> 8AM – 5PM	<b>OWTS System Controls</b> <i>Instructors: Mark Gross, PhD, P.E. &amp; Kit Rosefield</i>	Sacramento, CA
<b>March 16</b> 8AM- 5PM	<b>Basics of Wastewater Analysis &amp; Troubleshooting</b> <i>Instructor: Mark Gross PhD, P.E.</i>	Sacramento, CA
<b>May 17</b>	<b>Principles of Plan Checking</b> <i>Instructor: Mike Elliott, REHS</i>	Sacramento, CA
<b>May 30</b> 8AM – 12 PM	<b>Introduction to Onsite Wastewater</b> <i>Instructors: Jacque Sommers &amp; Kit Rosefield</i>	Santa Rosa, CA
<b>May 30</b> 1PM – 5PM	<b>Understanding Septic Inspections</b> <i>Instructors: Jacque Sommers &amp; Kit Rosefield</i>	-
<b>May 31</b> 8AM – 5PM	<b>NAWT OWTS Inspector Certification</b> <i>Instructors: Jacque Sommers &amp; Kit Rosefield</i>	-
<b>June 27</b> 8AM – 5PM	<b>Installation of OWTS – NEHA 2012 AEC</b> <i>Instructors: Jim Anderson PhD &amp; Dave Gustafson P.E.</i>	San Diego, CA
<b>June 28</b> 8AM-12PM	<b>Installation of OWTS Certification Exam</b> <i>Instructors: Jim Anderson PhD &amp; Dave Gustafson P.E.</i>	-
<b>June 28</b> NEHA schedule	<b>Outreach – NEHA 2012 AEC</b> <i>Instructors: COWA Staff &amp; Guests</i>	-
<b>July 26</b> 8AM – 5PM	<b>Low Pressure Pipe Drainfield &amp; Drip Dispersal Design</b> <i>Instructor: Nick Weigel P.E.</i>	Sacramento, CA
<b>September 13 &amp; 14</b> 8AM – 5PM	<b>Operations &amp; Maintenance Level 1</b> <i>Instructors: Mike Treinen R.E.H.S. &amp; Kit Rosefield</i>	Mill Valley, CA
<b>October</b> 8AM – 5PM	<b>Science of Soils</b> <i>Instructor: Carl Rittiman</i>	Northern, CA
<b>November</b> 8AM – 5PM	<b>Operations &amp; Maintenance Level 2</b> <i>Instructors: Nick Weigel P.E. &amp; Kit Rosefield</i>	Monterey, CA

### Course Descriptions

#### ***New this year! Introduction to Onsite Wastewater***

This four hour program is dual purpose. Modified from the day one materials of the NAWT OWTS Inspector program it also serves as an introduction for anyone interested in the basics of onsite wastewater treatment or “septic systems”. COWA encourages our agency hosts to invite system owners and folks from the local business community to come and learn how it all works, or doesn’t.

### **New this year! Understanding Septic Inspections**

This four hour program expands upon the Introduction to Onsite Wastewater and again is adapted from and is part of the NAWT OWTS Inspector program. Here we begin to discuss the importance of properly conducted septic inspections. This portion of the program will assist folks from the Real Estate, Lending and Builder Developer communities to better understand how septic systems can benefit their business interests.

### **NAWT Onsite Wastewater Systems Inspector Training and Certification**

A trend is growing where regulatory agencies, financial institutions, and builders are requiring that onsite practitioners show documentation of education and training for onsite systems inspection and management. This two day course, developed by the National Association of Wastewater Transporters delivers critical education and skills needed to implement standardized procedures in the inspection and management of conventional onsite systems.

### **NEW this year! Low Pressure Pipe Drainfield & Drip Dispersal Design**

New for COWA this year in response to requests from our Members, this program will be taught by one of our Qualified Professional Trainers. We will discuss when to specify a specific technology application and cover the basics of design for soil treatment systems.

### **New this year! Basics of Wastewater Analysis & Troubleshooting**

Learn from one of the best in the business, Mark Gross PhD, P.E. about the fundamentals of wastewater treatment and processes of removing nutrients such as phosphorus and nitrogen. You will also learn proper methods of wastewater sampling, handling and analysis and the role it plays in troubleshooting onsite wastewater treatment processes. Understand the impact of water softeners, mitigating vector infestation and other physical problems that affect system performance and engage in discussion on possible solutions.

### **Operation & Maintenance Service Provider Training Program**

This national training program presents a standardized method for evaluating the status of treatment, distribution and dispersal technologies used in advanced onsite wastewater treatment systems. It establishes a benchmark standard for operation, maintenance and monitoring activities. This program is delivered in two parts. Part 1, Introduction to O&M is a two day course that covers an industry overview, discusses Business and Ethics, Wastewater Math, Safety, Wastewater Characteristics and details technologies such as Tanks, Pumps, Demand Dosing, Gravity and Low Pressure Pipe distribution systems as well as at and above grade soil treatment applications. Completion of the NAWT Inspector program is recommended for success of Part 1. A certificate is issued for the successful completion of this part of the program. Part 2 is an advanced course expanding into Timed Dosing, Recirculation Ratios, and treatment technologies including Aerobic Treatment Units, Media Filters, Disinfection and Drip Dispersal. The Advanced program is a two day course and includes an afternoon "hands on" field session. A certificate is issued for the successful completion of this part of the program. Participation in Part 1 is required before taking Part 2.

### **The Science of Soils and Onsite Wastewater Disposal**

This one day course explores and identifies the variety of soil structures that may be encountered in the field. Participants will learn the components that compose a professional soil profile description, and will gain an understanding of the important role the soils play in the performance of all types of onsite wastewater systems. A valuable field component engages participants in open trench profiling practicing the evaluation of color, texture, and structure of soils in various test pits under the supervision of the trainer.

### **OWTS System Controls**

This one day program begins with discussion of control functions such as demand and timed dosing, sequencing, recirculation, flushing, data logging and remote communication. You will learn about various types of control sensors, valves, panels and pumps and will take part in hands on demonstrations of the testing and maintenance functions of multiple types of control systems including analog, digital and telemetry. Various panel manufacturers will be on hand to demonstrate the unique features of their control systems.

### **Installation of OWTS**

This one day course was developed by the National Association of Wastewater Transporters and prepares OWTS installers for level one certification by the National Environmental Health Association. The comprehensive introductory program covers everything from site layout to component bedding, leveling, piping, slope, final grading and compaction. Discussions also include system serviceability, start up and the relationships with Designers, Regulators and Service Providers. This course is a must for Installers considering involvement with engineered systems and packaged treatment units.

### **Principles of Plan Checking**

A need to know program for anyone who reviews plans. Designers, Regulators, Installers, O&M Service Providers and Suppliers who bid jobs will all gain from this informative course. You will learn about proper specification writing, accessibility issues and how to verify compatibility of components.

### **Vacuum Truck Operators Training**

This Vacuum Truck Technician Training program is a great tool for Liquid Waste Haulers to maximize business efficiency. It covers everything from the basics of safety, truck inspections, proper tank pumping procedures and rules of the road for professional drivers. The program includes a hands on demonstration of vacuum truck operation. A certificate is awarded with the successful completion of the course and exam.