



**SOUTH CENTRAL
MEMBRANE
ASSOCIATION**

Membrane Plant Operator Training

MOC-II: Advanced Training of Reverse Osmosis & Nanofiltration Systems

Alain Richard, Brazos Regional Public Utility Authority, TCEQ Qualified Instructor

Subject Matter Experts (SME) providing support
Tim Kirk, P.E., Avista Technologies, Inc.
Robert "Buddy" Boysen, Water Standard

Oct. 21-23, 2019

Neely House

304 E. Rucker St., Granbury, TX 76048

If Lost: 817-408-0414

Day 1 - Monday - October 21st

- 7:30 - 8:00 Registration/Check-In
- 8:00 - 9:00 Chapter 1 - Introduction to Reverse Osmosis and Nanofiltration Systems and Technology
- 9:00 - 10:00 Chapter 2 - Pre-Treatment Chemicals
- 10:00 - 10:15 Break
- 10:15 - 11:15 Chapter 2 - Pre-Treatment Chemicals (cont.)
- 11:15 - 12:00 Chapter 3 - Pre-Treatment Methods
- 12:00 - 12:45 Lunch (included)
- 12:45 - 1:45 Chapter 3 - Pre-Treatment Methods (cont.)
- 1:45 - 2:45 Chapter 4 - Membrane Applications
- 2:45 - 3:00 Break
- 3:00 - 5:00 Chapter 4 - Membrane Applications (cont.)

Day 2 - Tuesday - October 22nd

- 8:00 - 9:30 Plant Tour: Brazos Regional Public Utility Agency
- 9:30 - 10:30 Chapter 5 - Construction of Reverse Osmosis and Nanofiltration Membrane Elements
- 10:30 - 10:45 Break
- 10:45 - 11:45 Chapter 6 - Operating RO Membrane Systems
- 11:45 - 12:30 Lunch (included)
- 12:30 - 1:30 Chapter 6 - Operating RO Membrane Systems (cont.)
- 1:30 - 3:00 Chapter 7 - Data Collection & Normalization
- 3:00 - 3:15 Break
- 3:15 - 5:15 Chapter 8 - Troubleshooting

Day 3 - Wednesday - October 23rd

- 8:00 - 9:45 Chapter 9 - Membrane Cleaning
- 9:45 - 10:00 Break
- 10:00 - 11:00 Chapter 10 - Concentrate Disposal
- 11:00 - 11:30 Chapter 11 - Glossary
- 11:30 - 12:15 Lunch (included)
- 12:15 - 1:45 Course Summary, Review and Evaluation
- 1:45 - 2:45 Course Exam

Space is limited to 30 attendees

Students must have attended a basic water class (or equivalent) or be working as an employee of a W/WW Public Agency, an Industrial W/WW User or Water Supplier to End Users

TCEQ Approved Training Course #1438

Contact Hours Approved: 21.5 Water/5 Wastewater

Completion of this MOC-II course complies with the requirement in Title 30, Texas Administrative Code (TAC) §290.46(e)(2)(D) for training of RO/NF Plant Operators.

Thanks to Host Facility:

Brazos Regional Public Utility Authority



SPONSORSHIP OPPORTUNITIES

Major Sponsor...available at \$1,000

Lunch Sponsor...available at \$750 (per day)

Break Sponsor...available at \$350 (per break)

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and to become a sponsor!](#)



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MEMBRANE
ASSOCIATION**

October 21-23, 2019 Membrane Plant Operator Training MOC-II: Advanced Training of Reverse Osmosis & Nanofiltration Systems

REGISTRATION FORM

South Central Membrane Association (SCMA)

PHONE: 512-617-6529 ♦ MAIL: support@scmembrane.org ♦ WEB: www.scmembrane.org
14900 Avery Ranch Blvd., Ste. C200 #300, Austin, TX 78717

Name: _____ Title: _____
 Company: _____
 Mailing Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ Cell: _____
 E-mail: _____ Website: _____
 Billing Contact Name: _____ Email: _____ Phone: _____

Special Needs:
 Food Allergies
 (provide specifics below) _____
 Gluten Free
 Halal Meals
 Paleo Meals
 Vegan Meals
 Vegetarian Meals
 Wheelchair Access
 Other: _____

Please refer to SCMA's [Privacy Policy](#) if you have any questions regarding your preferences

Need Contact Hours: State: _____ License Type: _____ Grade (i.e., 1, 2, etc.): _____ Lic.#: _____

SCMA MOC-II: (See Program Information Page) Limited to 30 Attendees*

Students must have attended a basic water class (or equivalent) or be working as an employee of a W/WW Public Agency, an Industrial W/WW User or Water Supplier to End Users to attend this course:

(Non-Licensed Operators with water class attendance who pass the Exam are not eligible to receive a Membrane Operator Certification)

Non-Members - contact SCMA to become a member prior to registering for this Training

***Registration and Payment must be received prior to event date:** (No Exceptions)

	Amount
MOC-II - SCMA Members: (October 21-23)	\$375 _____
Exam: (Oct. 23)	\$25 _____
Total Registration Fee	\$ _____

***Limited Space - Registration Reserved ONLY Upon Receipt of Payment & Availability**

The registration fee includes CEUs/PDHs, the shipment of the MOC Manual to the address listed above upon receipt of payment. If an alternate address for shipment is requested, please provide the preferred shipment address by calling SCMA at 512-617-6529. If payment is not received within five (5) business days of the school, the MOC Manual will be provided the first day of class and upon receipt of payment.

PAYMENT METHOD:

Payable to: South Central Membrane Association
Mail to: 14900 Avery Ranch Blvd., Ste. C200 #300, Austin, TX 78717
 Check Enclosed for \$ _____ Please Invoice

For Security Purposes, SCMA encourages you to use the Easy Online Registration. Secure Credit Card and eCheck Payment Processing is Now Available at: WWW.SCMEMBRANE.ORG

Cancellations/Refunds...

Written cancellation requests received at least 14 days before a scheduled event will receive a refund, less a \$50 administrative processing fee. If a MOC Handbook was mailed, this will be processed after return of unaltered Handbook to SCMA office. Without the return receipt of the unaltered MOC Handbook the cancellation fee will be \$200 (includes administrative processing fee and handbook fee). Full payment is required if the request is received less than 14 days of the scheduled event and no refund will be available. A substitution of the registrant may be made any time without cost up to the date of the event. SCMA reserves the right to make changes to the scheduled event including but not limited to changing the event location, scheduled date(s), program and speakers, or to cancel the event in its entirety when conditions beyond its control prevail. If the event is cancelled, SCMA's liability is limited to providing a full refund of the fees paid toward the scheduled event.