



**SOUTH CENTRAL  
MEMBRANE  
ASSOCIATION**

# Membrane Plant Operator Training

## MOC-I: Introduction to Membrane Systems

Jerry Saldivar, Brownsville Public Utilities Board, TCEQ Qualified Instructor

Subject Matter Experts (SME) providing support  
Darrell Byrer, American Water Chemicals, Inc.  
Kirk Lai, Hydranautics - Nitto Group Company

**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

**Oct. 15-17, 2019**

### Southmost Regional Water Authority Brackish Groundwater Treatment Facility

1255 N. FM 511/TX-550 Frontage Rd.  
Brownsville, TX 78526  
If lost - Ph: 956-983-6680

TCEQ Approved Training Course #1394  
Contact Hours Approved: 21 Water/14 Wastewater

#### Day 1 - Tuesday - Oct. 15th

- 7:30 - 7:45 Registration/Check-In
- 7:45 - 8:00 Welcome & Introductions
- 8:00 - 10:00 Chapter 1 - Introduction to Membrane Processes
- 10:00 - 10:15 Break
- 10:15 - 12:15 Chapter 2 - R/O Membrane Processes
- 12:15 - 1:00 Lunch (included)
- 1:00 - 2:30 Chapter 3 - MF and UF Membrane Processes
- 2:30 - 2:45 Break
- 2:45 - 4:00 Chapter 6 - Membrane Math
- 4:00 - 4:15 Break
- 4:15 - 5:45 Chapter 6 - Membrane Math (cont.)

#### Day 2 - Wednesday - Oct. 16th

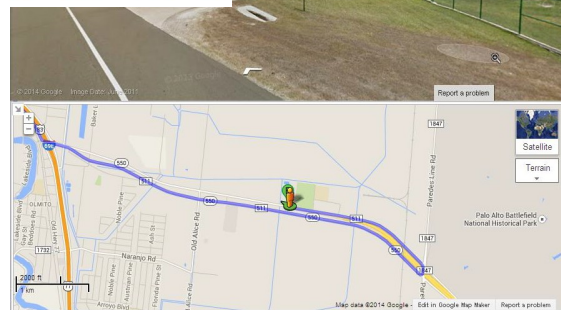
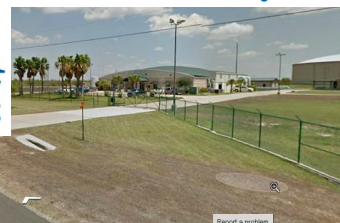
- 8:00 - 9:30 Tour: SRWA Brackish Groundwater Treatment Facility
- 9:30 - 9:45 Break
- 9:45 - 11:15 Chapter 4 - Water Supply
- 11:15 - 12:15 Chapter 5 - Water Chemistry & Chemical Dosing
- 12:15 - 1:00 Lunch (included)
- 1:00 - 3:00 Chapter 5 - Water Chemistry & Chemical Dosing
- 3:00 - 3:15 Break
- 3:15 - 5:15 Chapter 7 - Post Treatment

#### Day 3 - Thursday - Oct. 17th

- 8:00 - 10:00 Chapter 8 - Equipment Used in Membrane Processes
- 10:00 - 10:15 Break
- 10:15 - 11:45 Chapter 9 - Instrumentation and Controls
- 11:45 - 12:15 Chapter 10 - Safety
- 12:15 - 12:45 Lunch (included)

#### Thanks to Host Facility:

**SRWA**  
Southmost Regional Water Authority



#### Directions to Plant:

Head SE on I-69E S, take the exit toward Farm to Market Rd. 511/Port of Brownsville, merge onto Frontage Rd., left onto FM511 S/TX-550 Frontage Rd. (4 way stop), slight right onto TX-550 Frontage Rd., sharp left (turnaround) onto FM511/TX-550 Frontage Rd. 1st gate entrance to the right. At the call box dial 001

#### Hotels in the area:

**Homewood Suites by  
Hilton Brownsville (8 min (7.5 miles))**  
3759 N. Expressway, Brownsville, TX 78520  
(956) 574-6900

**Holiday Inn Express & Suites South  
Padre Island (41 min (31.2 miles))**  
6502 Padre Blvd, South Padre Island, TX 78597  
(956) 761-8844

#### Thanks to Major Sponsor:



**SPONSORSHIP OPPORTUNITIES**

**ARE AVAILABLE**

CONTACT: SUPPORT@SCMEMBRANE.ORG



October 15-17, 2019

# Membrane Plant Operator Training MOC-I: Introduction to Membrane 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: \_\_\_\_\_

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

**SCMA MOC-I:** (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)

		<b>Amount</b>
MOC-I - SCMA Members: (Oct. 15-17)	\$375	_____
Exam: (Oct. 17)	\$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](http://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.