

# VIRTUAL TRAINING

## Mechanical Integrity and Reliability of Coke Drums

This course provides participants with the knowledge and skills needed to understand mechanical and structural failure modes in coke drums and manage their integrity in an efficient manner.

This course is tailored for refinery engineers and inspectors who are involved in the operation, reliability, and maintenance of delayed cokers. This training is also useful to managers who are involved in making decisions regarding vessel replacement. Priority for registration in this class is given to operating company personnel.

### You will learn

#### Introduction

- Design primer
- Uniqueness of coke drums
- Common failure modes
- Relevant industry documents
- Introduction to FEA

#### Skirt Failures

- Skirt cracking and buckling
- Assessment of cracked and distorted skirts
- Skirt bolt failures
- Skirt repairs and retrofitting
- Unconventional skirts

#### Shell Failures

- Tilting
- Cracking
- Bulging
- Types of bulges
- Bulging assessment
- Bulge repairs
- Unconventional shells

#### Action Plan

- Drum life
- Inspection and monitoring
- Actions and strategies

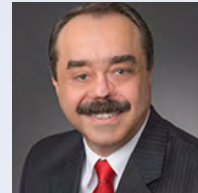
### Prerequisites

Recommended for those with previous experience in design, process, operations or maintenance of delayed cokers.

May 10 - 11, 2021

Training 8am-5pm CT (1300-2200 GMT) both days. Includes a complimentary all-access pass to the full week of the RefComm 2021 Virtual Technical Conference.

#### Dr. Mahmod Samman



Dr. Mahmod Samman is the president of Houston Engineering Solutions. He has thirty years of industry experience mostly in damage assessment, repair, and life extension of coke drums. His state-of-the-art techniques in this field are utilized around the world. A licensed professional engineer in Texas, he has a Ph.D. in Engineering Mechanics from Duke University, numerous publications, and four issued and pending patents. He is a member of ASME and ASCE and a committee member of API 579/ASME FFS, API 934G and API 934J.

## Training Pass

*Includes a complimentary all-access pass to the full week of the RefComm virtual event.*

Mechanical Integrity and Reliability of Coke Drums

\$900

Prefix	First Name	Last Name
Job Title	Company	
Mailing address	City	
State/Province	Postal code	Country
Contact email	Contact phone	

## Agreement & Payment

Signature	Date
Contract Amount - Invoice will be sent for payment (options: Visa, Mastercard, AMEX, Wire Transfer, Check, ACH)	
Email Address (RefComm Inc. will send the invoice to this email address)	

## Registration Form

Send this page to:

**email** RefComm@  
RefiningCommunity.com

**phone** +1 (360) 966-7251

**mail**  
REFCOMM<sup>®</sup> Inc.  
800 Cranberry Woods Drive, Ste 220  
Cranberry Twp, PA 16066  
USA

Prices are in US Dollars

## Checklist

**Register early** to benefit from scheduled advertising and promotions.

**Send a separate form for each person** or register online at your convenience.

**Make checks payable to**  
"RefComm Inc."

**Bank Transfer**  
Please contact Marlea Stockenberg  
marlea@coking.com