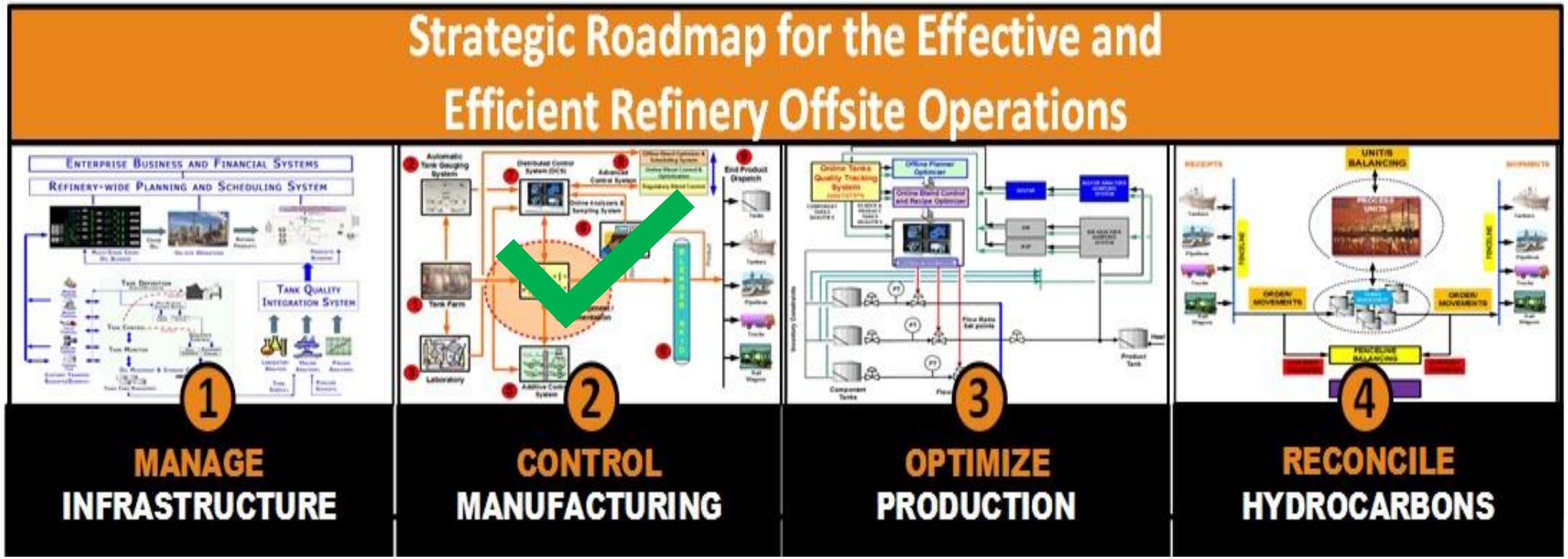
OMS eLearning Academy

For Refinery Offsite Operations Professionals

Effective Control and Profitable Manufacturing of Refinery Products

3 Days Public Course, March 12-14, 2024, Dubai, UAE

Strategic MCOR Courses for the Profitable Refining Operations

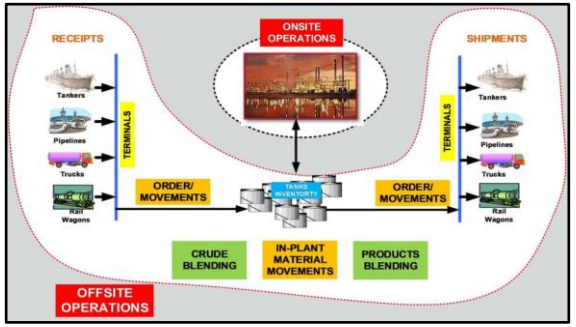


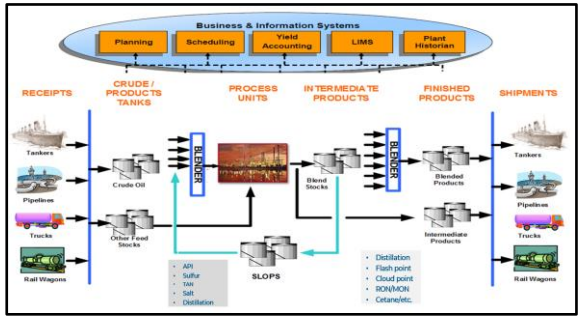
EFFECTIVENESS

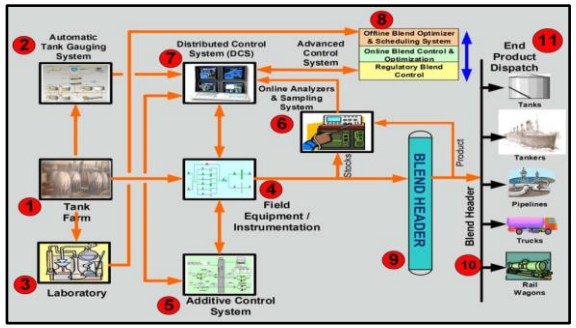
EFFICIENCY

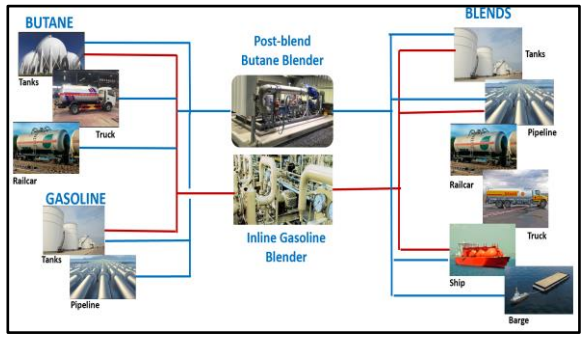
PROFITABILITY

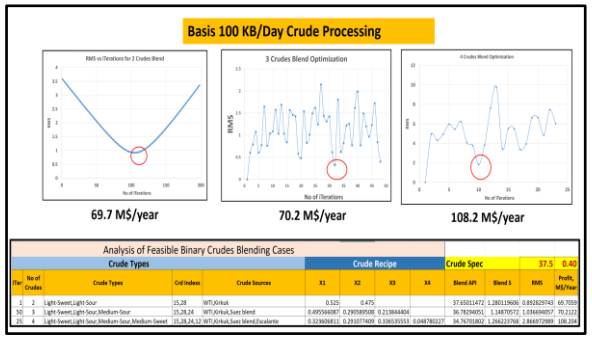
Effective Control and Profitable Manufacturing of Refinery Products











- A crude oil refinery makes 80-90% of its products by blending systems in the offsite operations area.
- The inefficient blending control and optimization of crude oil blending, fuels blending, LPG blending and ethanol blending can affect the refinery's low 5% or less profit margin drastically.
- This three days F2F public course will discuss all aspects of management, automation, control and optimization of manufacturing all final refinery products.

Our Organizations

Offsite Management Systems LLC

- Founded in 1988 in Houston, Texas, USA
- Founder and CEO – Dr. Suresh S. Agrawal
- **Business Charter** – To provide consulting and project management services to downstream refineries and related businesses worldwide

OMS eLearning Academy

- Founded in 2018 in Houston, Texas, USA
- Academy Director– Dr. Suresh S. Agrawal
- **Business Charter** – To provide online courses for the professionals at all skills levels in the downstream refining operations and related businesses

Webinar Speaker

- Our Course Director, **Dr. Suresh S. Agrawal**, is **Offsite Management Systems LLC (OMS)**, Houston, Texas, USA.
- He graduated from the Indian Institute of Technology, Mumbai, India, with a Bachelor of Chemical Engineering. He then obtained a Master's and PH.D. Degrees in Chemical Engineering from Illinois Institute of Technology, Chicago, USA.
- Dr. Agrawal has 40+ years of experience at senior technical / management positions with international companies, and he has successfully managed many advanced refinery process control projects in numerous countries.
- He has published and presented 30+ papers in international publications and conferences in the areas of advanced process control.
- He has also acted as a consultant to several refining and process industries worldwide and delivers training seminars in the areas of his expertise.
- He was also co-editor and sole author of two chapters in the 800+pages ASTM manual **"MNL58 - Petroleum Refining and Natural Gas Processing,"** published in 2013.

Course Details

Information	Details
Start Date / Time	March 12, 2023 8 AM
End Date / Time	March 14, 2023 5 PM
Registration and Welcome	March 12, 2023 7 AM
Registrations Limit	25 (Subject to Revise)
City, State, Country	Dubai, UAE
Venue	To Be Announced

View Course Topic Catalog

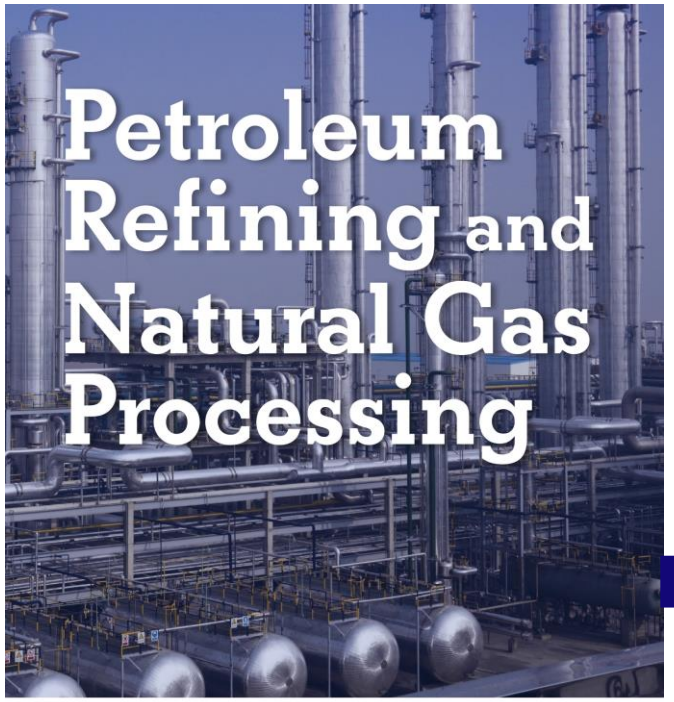
Course Fee and Discounts

Information	Details
Course Fee	USD 2,499 / Person
Registration and Payment Deadline	February 15, 2024
Early-Bird Discount	USD 100/Person
Early-Bird Deadline	January 15, 2024
Ground Discount	USD 125 / Person for 5+ Registrations from the same company
Group Discount Deadline	January 15, 2024

REGISTER NOW

PAY NOW

What will the Course Fee include?



REGISTER NOW

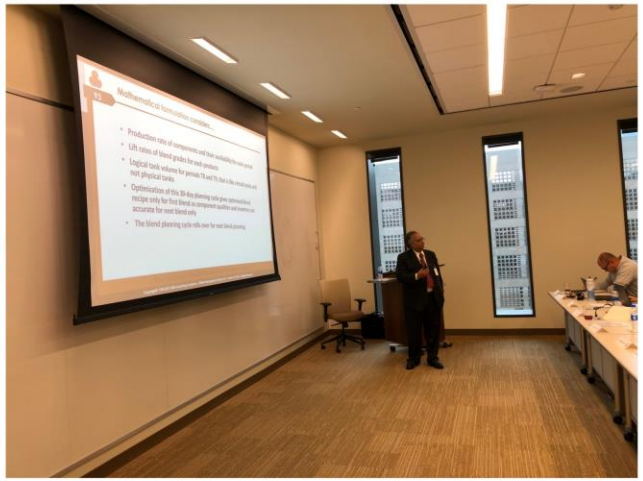
- Printed copy of the course material – 4 Slides / Page in double-side format
- Notebook / Pen for the Class Notes
- Water Bottle
- Corporate Gift
- Morning / Afternoon Snacks and Drinks
- Buffet Lunch
- 2nd day Dinner with the Course Director
- **Chance to win a printed copy of the ASTM Manual-58 *(Edited and Co-Authored by the course Director)***
- **One-month free access to OMS eLearning Academy of 200+ Topics/Courses**

Recommended Professionals to Attend the Course

- This course is very comprehensive in nature and cover 50-60 topics of 25-30 minutes each.
- Each topic is carefully selected for all the course to cover management, automation, control, and optimization of refinery offsite operations, which produce 80-90% of refinery products.
- It is almost pertinent that refinery professionals are trained adequately and continue to perform their job functions.

  - ✓ **Management** – Refinery Manager, OM&S Manager, Blending Manager, Control System Manager, and IT Manager
  - ✓ **Planning and Scheduling** – Refinery Planner, Refinery Scheduler, and Blending scheduler
  - ✓ **Engineering** – Process Engineer, Blending Engineer, Control System Engineer, IT/Engineers/Analyst, and Analyzer Engineer
  - ✓ **Operations** – Offsite operators, Blending Operators, Field Operators, Maintenance Staff.
  - ✓ **Financial** – Finance Manager, Yield Accountant, Finance Analyst

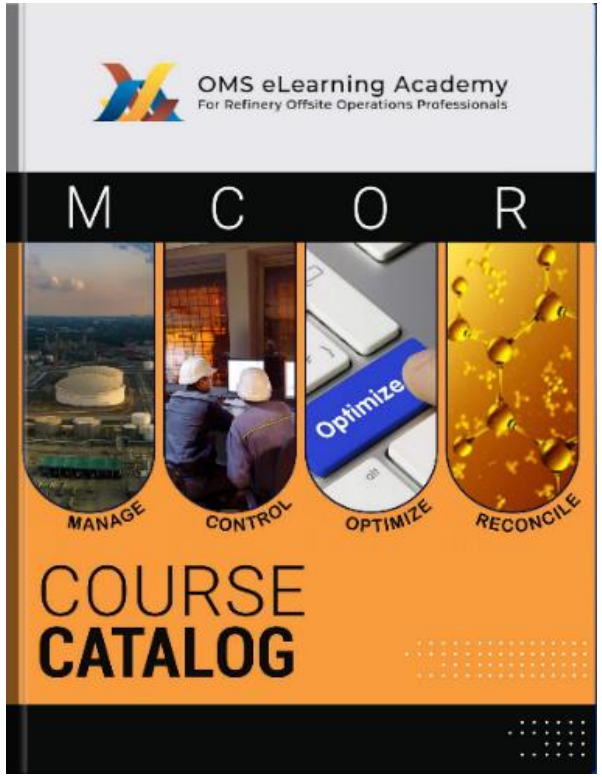
One-Day Course
Conducted at Phillips66, Houston Corporate

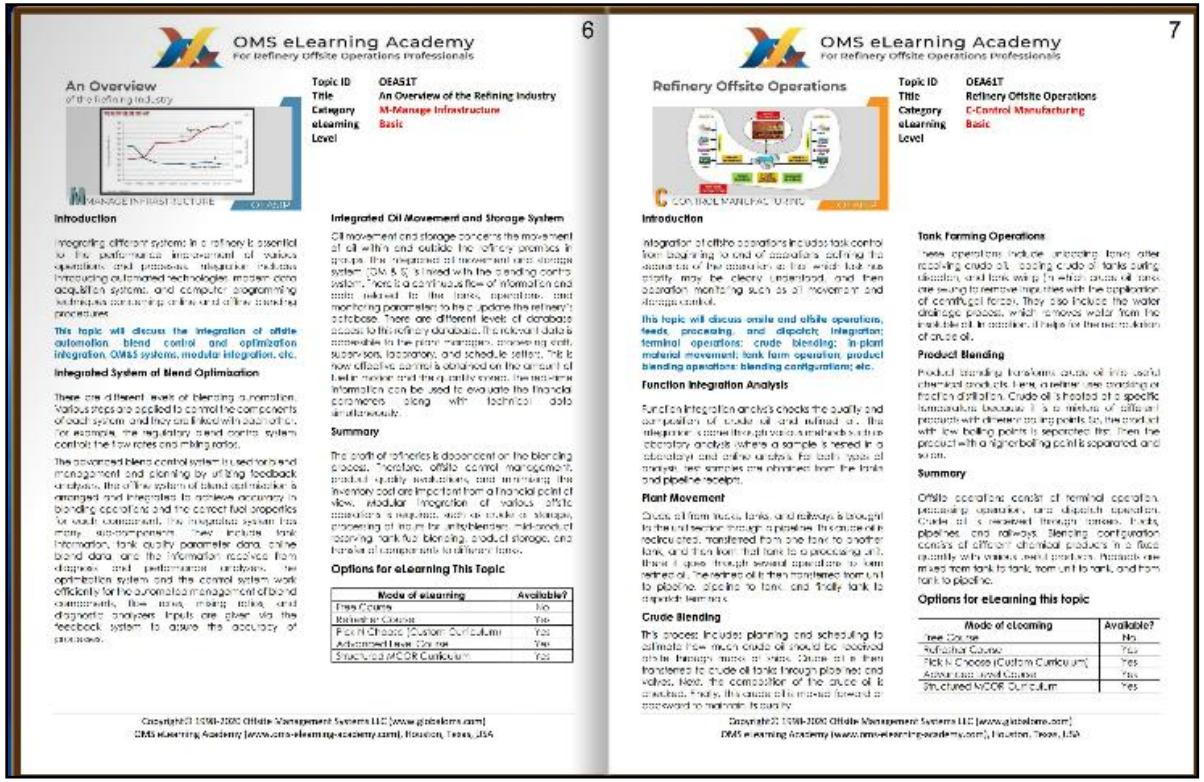


- One Day Course on **Advanced Fuel Blend Control and Optimization**
- Attended by 45 professionals from 13 **Phillips66** refineries
- Attendees belonged to different departments and receptibilities

Three-Days Private Course Conducted at Cartagena, Ecopetrol Refinery

Course eBook of all Topics





To view the preliminary course contents for each topic, please below.
The course contents may be revised/enhanced to create a maximum learning experience.
Your suggestion for changes or additions to content is welcome before February 1, 2024.

View Course Topics Catalog

MCOR-02 Control of Manufacturing

Day-1 Automation and Management of Infrastructure

Module-1 Overview and Fundamentals	
1	An Overview of the Refining Industry
2	Refinery Offsite Operations
3	The Roadmap to MCOR of Refinery Offsite Operations
4	Fuel Blending Operations in a Refinery
5	Problems and Challenges of Blending Operations

Module-2 Automation of Infrastructure	
6	Tank Farm Management
7	Tank Gauging System
8	Terminal Operations
9	Tank Inventory Management System
10	The Management and Automation of OM&S in a Refinery

Module-3 Qualities Analysis and Measurements	
11	Quality Relationships, Analysis, Measurements, and Control
12	Lab Analysis of Stock and Product Qualities
13	Online Analysis of Stock and Header Qualities
14	Model-Based Predictions of Tank Qualities
15	The Mysteries of Octane

Module-4 Crude Blending	
16	Crude Blending-Part I Concept And Economics
17	Crude Blending Optimizer
18	Crude Blending Part-II Analyzers and Controls
19	Crude Tanks Composition Tracking
20	Gasoline, Diesel, and Fuel Oil Specifications
	Reviews, Discussion, Questions and Answers

View Course Topics Datasheets

Day-2 Products Manufacturing Control and Optimization

Module-5 Fuel Blending	
20	Optimum Blend Control System Strategy
21	Blender Configurations
22	Field Equipment and Instrumentation
23	Additives Control and Monitoring
24	Blend Header Design Considerations

Module-6 Linear and Non-Linear Blend Models	
25	Blending Definition and Formulation
26	Linear and Nonlinear Blend Models
27	Methods to Handle blend model errors
28	Control Matrix of Qualities
29	The Journey of Octane Thru Refinery Lanes

Module-7 Offline Blend Optimization and Planning	
30	Refinery-Wide Planning and Scheduling
31	Offline Blend Planning and Optimization
32	Demonstration of an Offline Blend Optimizer System
33	The Quality Giveaway-Concept, Cost, and Reduction Benefits
34	Lab Exercise to Solve an LP Problem of a Small Refinery

Module-8 Regulatory Blend Control	
35	Regulatory Blend Control
36	Blend Trim Control
37	Diesel Blending
38	Ethanol Blending
39	LPG Blending
	Reviews, Discussion, Questions and Answers

View Course Topics Datasheets

Day-3 Projects Justification and the Implementation

Module-9 Online Blend Control and Optimization	
39	Mathematics of offline versus online blend Optimization
40	Advanced Online Blend Control and Optimization
41	Control and Optimization of a Rundown Blending System
42	Data Reconciliation and Feedback
43	Regression and Feedback of Blend Model Parameters

Module-10 Estimation of Tangible Benefits	
44	How to Benchmark the State of a Refinery Fuel Blending System
45	Tangible Benefits of Refinery Offsite Operations
46	Where and How to Start
47	Identification of Automation Areas
48	Required Blending Data for Control and Optimization

Module-11 Blending Project Implementation	
49	How to Implement a Blending Control and Optimization Project
50	How to Implement an Oil Movement and Control Project
51	Collaboration of Data and Process for Refinery Offsite Operations
52	How to Realize and Sustain Benefits
53	Why Blending Projects Fail

Module-12 Success Factors for a Profitable Refinery	
54	Required Enterprise Changes to Implement Blending Projects
55	Continuing Education in the downstream Refining
56	About OMS eLearning Academy Portal
57	A Treatise of ASTM Standards
	Reviews, Discussion, Questions and Answers
	Certificate award and ASTM Manual winner draw

View Course Topics Datasheets

Past Courses conducted as Public / Private / in-house

Companies who participated in the Course taught by the Course Director

REGISTER NOW

- **Public Courses**
  - ✓ Singapore
  - ✓ Prague, Czech Republic
  - ✓ Bangkok, Thailand
  - ✓ Orlando, Florida
  - ✓ Houston, USA
- **Private Courses**
  - ✓ Phillips 66, Houston
  - ✓ IST Corporation, Bogota, Columbia
  - ✓ Ecopetrol, Cartagena refinery
  - ✓ HPCL Refinery, Vishakhapatnam
  - ✓ Pemex Refinery, Mexico
- **In-House Courses**
  - ✓ 3X Corporation, New Jersey
  - ✓ ABB, Inc, Houston
  - ✓ Exxon Mobile, Rotterdam, The Netherlands
  - ✓ CEPSA Refinery

Few Testimonials from the Past Attendees

1. *Five stars to the course and the instructor.*

2. *Upon completion of the course, I felt good to have learned what is offsite operations about as in our refinery this area of operations is not focused enough even though it affects the bottom-line. Great course, indeed. – Smith Edward ,...*

3. *My favorite topics were the "journey of octane thru refinery lanes" and fuels blending. The lab exercise to solve a small refinery problem was excellent to demonstrate the use of LP. I wish the course would have more lab exercises of the kind.*

4. *I was transferred to offsite operations from onsite and I had very little clue about offsite as such. This course gave me an excellent overview of technology and operational aspects with right blend of details. I would recommend this training course to...*

5. *The discussion of our refinery fuels blending problem at the end was very helpful to us and gave us directions to move towards. Thank you very much, Dr. Agrawal.*

Few Testimonials from the Past Attendees

READ MORE TESTIMONIALS

6. *The discussion of our refinery fuels blending problem at the end was very helpful to us and gave us directions to move towards. Thank you very much, Dr. Agrawal.*

7. *The instructor is extremely knowledgeable and very interactive with the class participants.*

8. *The course was very interesting as I could relate the refining and auto industry problems and challenges in terms of fuel quality specifications and ways to meet them economically.*

9. *The concept of Blender header design was very innovative as it was developed and taught by the instructor. It took the notion out that blend header is just a piece of pipe. It has many design considerations, important to success of blending system, thank...*

10. *I have not attended any training course before which is so methodical, exceptional, rich in topics and presented excellently. I learned a lot about fuels blending in this course, thanks to the instructor.*

Cancellation & Refunds

- **Can't make your scheduled course?**

  If you cannot attend your registered course, send a request for a substitute course schedule in the future.
  Contact Info-oea@globaloms.com to transfer and be aware that transfers are subject to space allocation. There is no additional charge for transferring to a different course in the future. However, cancellation on or after the first day of a course is subject to the full course fee.
  Please see our refund policy below for more details.

- **Refund Policy**

  OMS will provide a refund per the following schedule of cancellation requests before the start of the event:

  - More than 21 days – 100 % refund
  - Between 14 to 21 days – 75% refund
  - Between 7 to 14 days – 50% refund
  - Before seven days – No refund

Course Policies

- **Travel**

  OMS is not responsible in any way for the purchase of non-refundable airline tickets or the cancellation/change fees associated with canceling a flight. OMS encourages attendees to call and confirm whether a specific course is running before purchasing airline tickets. OMS retains the right to cancel a course until three weeks before the scheduled presentation date.

- **Dress**

  Casual business attire

- **Personal Property**

  Attendees are responsible for all personal belongings during the course length while in the hotel and other meeting spaces; this includes all breaks, lunches, and overnight accommodations. OMS does not assume responsibility for any missing or damaged articles.

  Additional information Statements made by instructors do not represent the position of OMS. No audio recording or videotaping is permitted. OMS reserves the right to substitute an instructor(s). Course prices are subject to change without notice.

Register Now and Pay Later to Save Your Seat

Event Date – March 12-14, 2025. Three Full Days, Dubai, UAE.
Venue will be announced after the course schedule is confirmed based on threshold number of registrations.

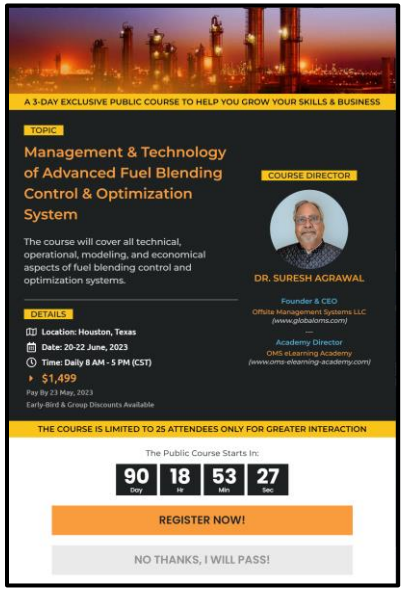
Action	Deadline	LinkedIn	OMS Academy
Registration	February 15, 2024		https://www.oms-elearning-academy.com/public-registration/?CourseID=OEA1302P
Payment	February 15, 2024	Not Applicable	https://www.oms-elearning-academy.com/product/oea1302p-technology-and-management-of-fuel-blending-control-and-optimization-system/
Early-Bird & Group Discount	January 15, 2024	$100 / Person for Early-Bird $125 / Person for Group of 5+	

REGISTER NOW

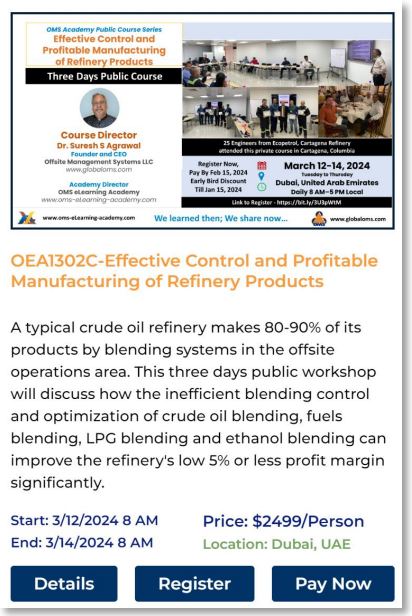
PAY NOW

Ways to Register and Pay for the Course

REGISTER ON LINKEDIN



Click on the register button on the popup on our Academy Home Page. It will redirect to LinkedIn page.



REGISTER ON ACADEMY

PAY ON ACADEMY

Choice of Course – Public F2F vs eLearning

You can choose enrolling for public course or eLearning on the Academy Portal

OEA1302C-Effective Control and Profitable Manufacturing of Refinery Products

A typical crude oil refinery makes 80-90% of its products by blending systems in the offsite operations area. This three days public workshop will discuss how the inefficient blending control and optimization of crude oil blending, fuels blending, LPG blending and ethanol blending can improve the refinery's low 5% or less profit margin significantly.

Start: 3/12/2024 8 AM
End: 3/14/2024 8 AM

Price: $2499/Person
Location: Dubai, UAE

Details | Register | Pay Now

Public Course

- $2 499 / Person
- 3 days Duration
- Venue – Five Star Hotel
- F2F learning and live Interaction
- Printed Course Material
- Daily Meals / Gift /Dinner with Course Director

REGISTER NOW

eLearning Course

- $769 / Person
- 6 Months Duration
- eLearn anytime, anywhere, any device
- Audio-vide-subtitled Format
- No copy of course Material Provided

ENROL NOW

OEA562P-MCOR-C-Control Refinery Manufacturing

This topic is a placeholder for a future topic. The topic will be in one of the categories of the MCOR, namely, Manage, Control, Optimize and Reconcile.

$769 | 54 Topics | 967 Slides
Dur 24 hrs |
Exp 118 days

★ ★ ★ ★ ★ Reviews

Details | Enroll

MCOR-02 Control of Manufacturing

Still Have Questions? Contact Us Here...

SCAN ME

GLOBALOMS

Mailing Address
Offsite Management Systems LLC
2003 Baker Estates Dr.
Houston, Texas 77094, USA

Mode	Type	Details
Emails	Get Information	Information
	Get Support	Support
	Contact Director	Course Director
Phone	Office	+1-832-821-8001
	Mobile	+1-281-650-3707
	Fax	+1-866-450-8035
Social Media	LinkedIn	linkedin.com/company/omsacademy
	Twitter	twitter.com/omsoeausa
	Facebook	facebook.com/omselearningacademy
	Instagram	instagram.com/omselearningacademy/
	YouTube	youtube.com/@OMS-eLearning-Academy

Looking forward to seeing you at the event...