



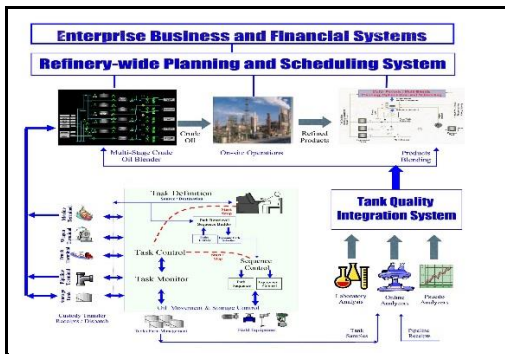
OMS-01 Strategic Management and Automation of Refinery Offsite Operations

Training Courses

INTRODUCTION

The Automation of Refinery Offsite Operations workshop aims at improving the attendees' knowledge and understanding of the principles of operation and decision-making involved in the management of refinery offsite operations, such as crude / products blending control and optimization, tanks farm management, terminal and custody transfer, oil movement etc.

The information imparted during the seminar will affirm the existing knowledge and increase learning and comprehension of the various systems of refinery offsite automation, thereby contributing toward efficient and economic management. The seminar will cover all technical, operational, modeling, and economical aspects of refinery offsite operations.



PROGRAM OUTLINE

- **Day-1 Overview of Offsite operation**
 - Oil and Gas Industry Economics-101
 - Overview of Refining
 - Refinery Offsite Operations
 - Problems and Challenges
 - The Hydrocarbon Management (HM) in the Refining Industry
 - Terminal Operations
 - Tank Farm Fundamentals
 - Tank Gauging System
 - Tanks Inventory Management System
 - Tanks Quality Analysis and Prediction
 - Tanks Fugitive Emission Measurement and Control
 - The Mysteries of Octane
 - The Journey of Octane thru Refinery Lanes
 - Diesel or Gasoline, Which one to produce more
 - Visits to Natural Gas, CNG, LNG, LPG and GTL
- **Day-2 Fuels Blending Management and Technology**
 - Oil Movements
 - Demo of Commercial OM&S System
 - Overview of Blending Operations
 - Crude Blending
 - Products Blending
 - Blenders Configurations
 - Field Equipment and Instrumentations
 - Analyzers and Sampling System
 - Regulatory Blend Control
 - Blend Trim Control
 - Linear Blend Models
 - Non-linear Blend Models
 - Methods to Handle Blend Non-linearity
 - Blend Optimization
 - Lab Exercise to solve an LP problem of a small refinery

- **Day-3 Offsite Automation Project Justification and Implementation**

- Refinery-wide Planning & Scheduling
- Advanced Blend Control Strategy
- Offline Blend Optimizer
- Online Blend Control & Optimization
- Data Reconciliation and Feedback
- Interface with Other Systems
- System Architecture
- Over-all Integration
- Where and how to start
- Economical Justifications
- Identification of Automation Areas
- Data gathering and Analysis
- Project Implementation Phases & Strategy
- How to realize and sustain benefits
- Required Enterprise Changes
- Putting it All Together
- A treatise of ASTM Standards

The training course covers about 55 topics of 20-30 minutes each and spans over three to five day's duration depending upon local working hours. The course is currently offered as a public / private course directly by OMS and in affiliation with various training institutes worldwide.

COURSE INSTRUCTOR

Dr. Suresh S. Agrawal is founder and president of Offsite Management Systems LLC and has developed and installed innovative and technologically advanced automation software products, and integrated solutions for the automation of offsite operations of Chemical, Oil and Gas (COG) Industries. Dr. Agrawal has 25+ years of experience at senior positions with companies, including being Director of Refinery Offsite Operations at ABB Industrial Systems Inc., Houston, TX. He has also worked with reputable companies such as 3X Corporation, New Jersey and Exxon Corporation, New Jersey. Dr. Agrawal has successfully managed many advanced offsite refinery control projects in numerous countries. He has a doctorate degree (Ph.D.) in Chemical Engineering from the Illinois Institute of Technology, Chicago, and a Bachelor's Degree in Chemical Engineering from Indian Institute of Technology (I.I.T.), Mumbai, India. He has published more than 20 technical papers in the area of advanced control of refinery onsite / offsite operations.

2017-2020 Course Schedule:

Dates	Venue
14-16 Mar, 2017	Houston, Texas
13-15 Mar, 2018	Dubai, UAE
12-14 Mar, 2019	Mumbai, India
10-12 Mar, 2020	London, UK

Registration: [Click here](#) to visit the course page and then click on above Seminar dates to register and pay online. An email will be sent to you after successful registration.

For further information, please contact

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