

Organized by:



ASTM International: Petroleum Courses

FUEL TECHNOLOGY (Diesel, Gasoline and Aviation)

Malaysia July 5 - 7, 2010

CRUDE OIL: Sampling, Testing, and Evaluation

Singapore September 28 - 30, 2010



ASTM INTERNATIONAL PROFESSIONAL CERTIFICATE

Delegates who successfully complete this course will receive the ASTM INTERNATIONAL PROFESSIONAL CERTIFICATE that is recognized worldwide

FREE MEMBERSHIP

Attend this course and receive a FREE 1-YEAR MEMBERSHIP to ASTM International and Committee D02 on Petroleum Products and Lubricants.

(Applies to new members only and may not be used to renew existing memberships)

FREE MEMBERSHIP

TAKE ADVANTAGE OF OUR EARLY-BIRD OFFER
Enrol six participants and the seventh participant will attend it free of charge
Please see registration form for further information*

**expires on 30 April 2010*



ABOUT ASTM INTERNATIONAL

ASTM & COMMITTEE D02

Organized in 1898, ASTM is one of the world's largest voluntary standards development organizations in the world—a trusted source for technical standards for materials, products, systems, and services. Known for their high technical quality and market relevancy, ASTM International standards have an important role in the information infrastructure that guides design, manufacturing and trade in the global economy. ASTM International, originally known as the American Society for Testing and Materials (ASTM), was formed over a century ago, when a forward-thinking group of engineers and scientists got together to address frequent rail breaks in the burgeoning railroad industry.

Their work led to standardization on the steel used in rail construction, ultimately improving railroad safety for the public. As the century progressed and new industrial, governmental and environmental developments created new standardization requirements, ASTM answered the call with consensus standards that have made products and services safer, better and more cost-effective. The proud tradition and forward vision that started in 1898 is still the hallmark of ASTM International.

ASTM standards have grown to be among the world's most widely used and accepted documents. The 82-volume Annual Book of ASTM Standards (available in print, on CD-ROM, and on-line) contains 12,000 standards written by 34,000 members on our 140 technical committees. Committee D02 developed some of the standards used in this course.

MEMBERSHIP BENEFITS OF ASTM COMMITTEE D02 ON PETROLEUM PRODUCTS AND LUBRICANTS

- 10% discount off all ASTM Publications
- Reduced symposia registration fees
- Make contact with industry professionals worldwide
- Associate with an industry cross-section that represents a wide variety of technical disciplines and organizations
- Access to contact information of other participants in your industry through electronic. [Members Only. pages](#)
- Gain greater access to current information affecting your industry by attendance at standards development meetings, symposia, and work shops
- Receive the latest information on revisions to standard development of new standards and proposed regulatory initiatives
- Through direct participation in the ASTM standards process you are personally involved in the development of intellectual capital that is on the cutting edge of new trends and technology
- The ability to influence the development of standards through your vote on draft standards
- Interact with business competitors and customers on a cooperative technical basis
- Involvement in planning and conducting meetings, including electronic venues
- Aide in the engineering of a standardization strategy for your industry



Contact us:

Phone [65] 6488-0282

Fax [65] 6284-0668

E-mail sales@adastra.com.sg

ASTM International: Petroleum Course

FUEL TECHNOLOGY (Diesel, Gasoline and Aviation)

Malaysia July 5 - 7, 2010

The Fuels Technology course will be most valuable to scientists and engineers whose job responsibilities include testing and usage of gasoline, diesel and aviation fuels. The course will not only benefit newcomers to this technology but also experienced fuel technologists.

The instructor's vast experience in this area will allow him to focus on key issues related to fuel specifications, performance, additives and fuel storage and distribution. His deep involvement with ASTM and his experience with global fuel issues enrich the course content.

With recent trends towards environmentally friendly ultra-clean fuels, fuel specification testing procedures have attained a reasonable level of sophistication. The significance of such testing will be fully covered in this course.

Based on the feedback from the pre-course questionnaire, the facilitator will spend more time discussing diesel/gasoline or aviation.

COURSE TOPICS

- Hydrocarbon chemistry, refinery processes and fuel blending
- Gasoline engine, combustion (knocking & octane)
- Volatility (distillation, vapor pressure, vapor Liquid Ratio)
- Gasoline specifications and sulfur reduction
- Gasoline testing procedures, additives, oxygenates, emissions
- Jet engine fuels and combustion, specifications, testing, volatility
- Jet fuels low temperature operability, viscosity density and specific energy
- Properties not controlled by specifications
- Distribution and Quality Control procedures
- Aviation gasoline, specifications, testing, unleaded gas
- Diesel engine, combustion principles, octane number, specifications and Testing
- Diesel engine sulfur reduction, additives, lubricity, cold flow performance
- Diesel engine emissions and microbial contamination
- Fuel Storage, fuel distribution, quality control
- Fuels of the future

WHO SHOULD TO ATTEND

Scientists, engineers, plant supervisors, senior technical staff, senior plant operators and laboratory personnel.

ABOUT THE INSTRUCTOR

This ASTM certified instructor has spent 27 years at Texaco Research and Development in diverse areas of fuel technology. He is retired in 1994.

Important assignments during this tenure include:

- Manager of Fuels Testing Lab
- Training, testing and auditing fuel testing personnel, evaluation of fuel testing facilities both within and outside Texaco
- Expert witness for Texaco Legal Department
- Texaco representative on many ASTM Fuels Committees

Presently, he is a private consultant to the Petroleum Industry and conducts fuel-related training courses worldwide on behalf of ASTM and other organizations. He has chaired ASTM Fuel committees and in 1999 he received ASTM's highest award, Award of Merit, for his contribution to Fuel science.

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ASTM International: Petroleum Course

CRUDE OIL: Sampling, Testing and Evaluation

Singapore September 28 - 30, 2010

Crude oil is the single largest traded commodity in the world. Proper sampling, analysis, and reporting of data according to established standards is of paramount importance, especially with the price of crude oil having recently reached record levels.

Whether crude oil is refined in the near-term or stored for an extended period, it is fundamentally important that recognized procedures and standards be used in sampling and analysis. This is true from the time crude oil is produced, through transportation and interim storage, until it is ultimately refined.

OBJECTIVES

- How representative samples are collected using automatic and manual methods.
- About the test methods available for obtaining the data necessary to determine quantity for custody transfer purposes and conformance to expected quality
- How to evaluate the commodity for assessing handling and processing characteristics, especially “opportunity” crude oils.
- The challenges facing refiners and analysts as crude oil streams become heavier, and higher in sulfur and acid content.

A number of case studies will be discussed relating to material covered in the course.

WHO SHOULD TO ATTEND

Laboratory technicians and chemists responsible for the analysis of crude oil samples for quantity and quality purposes. Refinery personnel responsible for evaluating crude oil to determine their processing characteristics.

Operating (field) personnel responsible for collecting samples will also benefit from a better understanding of how test results are directly dependent on proper sample collection and handling. Traders and buyers involved in sale, purchase, or exchanges of crude oil.

Note:

A minimum of two years of college with emphasis on chemistry or environmental science is highly recommended but not required. Laboratory work experience is acceptable in lieu of college training.

For operating personnel, it will be helpful if you have completed at least one course in petroleum measurement and have some field experience.



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COURSE OUTLINE

Day 1

Definitions and Terms
Quality Variations and Their Causes
The Complexities of Crude Oil Composition
Sampling Protocols
Sampling Containers and Sample Integrity

Day 2

Inspection Analyses (Cursory Assay)
Comprehensive Analyses (Full Assay)
The Basics of Crude Oil Processing Evaluation
ASTM Crude Oil Interlaboratory Crosscheck Program
(Properties, Test Methods Order, Reporting Requirements)
Other Important Crude Oil Properties
Future Needs in Crude Oil Characterization


Day 3

Challenges Presented to the Analyst by Heavier, Higher Sulfur Feedstocks and “Opportunity” Crude Oils
Future analytical Test Method Requirements

ABOUT THE INSTRUCTOR

This ASTM certified trained was with the U. S. Department of Energy for 30+ years, where he managed the crude oil quality programs for the Strategic Petroleum Reserve. He has authored or co-authored a number of articles on crude oil analysis and characterization.

He has been actively involved in the work of ASTM International Committee on Petroleum Products and Lubricants for more than 20 years. He is Director of the Crude Oil Quality Group and a member of API’s Committee on Measurement Quality, and IASH, the International Association for Stability, Handling, and Use of Liquid Fuels. He is also a technical advisor to ASTM for their Crude Oil Interlaboratory Crosscheck Program (ILCP).



Find out more on one of our most popular
in-house programs:

THE ART OF NEGOTIATING®

Our negotiation specialist is the co-founder of an Institute of Negotiation from U.S.A that has provided the longest running negotiation skills course and training organization in the world. His institute had advised **President Clinton** and **Carter** as well as negotiated **Bangladesh's independence** and currently offers professional negotiation consulting and a number of in-house training programs and more than **1,000,000 executives and professionals** from **Fortune 500** companies, educational institutions, governmental bodies, and associations of every nature from more than 30 countries **have received benefits from attending our sessions**. It has been copied by others since then. Imitation is the highest form of flattery or so they say.

The course is also considered to be the "state of the art" in negotiating courses because we consistently update our material through research and study. Our negotiation specialists are experts in their field. Upon your confirmation, we will discuss with you further to customize our course to meet the needs of your organization.

Post-seminar Support Guarantee

Here is our guarantee. At no cost to your organization, after we conduct an on-site negotiation program, attendees can call our trainer with specific questions for a period of 30 days.

Some of the benefits for conducting this program as an in-house are:

- ✧ Topics and questions will be customized to your organization's needs. Your problem will be the subject matter of the course program.
- ✧ Ensure that learning is pragmatic and can be applied immediately back to Remedial Management. It is designed to address real work issues and problems and not just be input on specific topics
- ✧ Group interaction contributes to creative solutions
- ✧ Confidentiality: all information will remain confidential
- ✧ Cost Effective: It costs less than the investment fee of our public training program
- ✧ Convenience: the timing and venue of the training will be adjusted to your preference

"The father of negotiation training" – **Forbes**

"Stimulating and productive" – **Exxon**

"Very timely and valuable...engaging
and informative" – **Wachovia**

"Full of insights" – **Columbia University**

"...relevant to our current business climate,
realistic in its approach" – **AT & T**

Please contact us to learn about
the details and other negotiation
courses that are more suitable
for you and your organization.

NEGOTIATION INSTITUTE

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FUEL TECHNOLOGY (Diesel, Gasoline and Aviation)

Malaysia July 5 - 7, 2010

CRUDE OIL: Sampling, Testing, and Evaluation

Singapore September 28 - 30, 2010

► FEE

Investment fee USD 2,599*

- Enrol three participants and get 3% off the investment fee*
- Enrol five participants and get 5% off the investment fee*
- Enrol six participants and the seventh participants will attend it free of charge*

* **FUEL TECHNOLOGY (Diesel, Gasoline and Aviation)**

Registration and payment must be received by **April 30, 2010**

CRUDE OIL: Sampling, Testing, and Evaluation

Registration and payment must be received by **June 30, 2010**

I would like the information on holding this program in-house

- The registration fee is payable in advance and inclusive of luncheon(s), reception, refreshments, program materials, and certificate.
- Due to limited seats reserved, an early confirmation of the reservation is HIGHLY advised. Ad Astra will only be able to confirm your reservation after the payment has been received.

► REGISTER

To register, contact Ad Astra Sales Team:

Ph [65] 6488-0282

Fax [65] 6284-0668

E-mail sales@adastra.com.sg

► VENUE & ACCOMMODATION

Hotel accommodation and travel expenses are not included in the program fee.

If you have any physical access or dietary restrictions, please contact us at coordinator@adastra.com.sg to notify us of your needs.

PERSONAL DETAILS

Designation : Mr. / Ms. / Mrs. / Dr. / Prof. / Other _____

Name (please underlined your family name)* _____

Name (for badge) _____

Position* _____

Department _____

Company* _____

Address _____

City/Town _____

State/Province _____

Zip/Postal Code _____

Country _____

E-mail _____

Phone _____

Facsimile _____

I understand and accept the booking terms and conditions

Authorization

Signatory must be authorized to sign on behalf of the contracting organization.

Name _____

Position _____

Department _____

E-mail _____

Phone _____

_____ Date / /

If you do not receive a letter outlining joining details 2 (two) weeks prior to the event, please contact the Program Coordinator at coordinator@adastra.com.sg

* The information provided will be used on the certificate.

► DISCOUNTS

Team Discount

All registrations must be paid for at the same time to qualify. Please call us for a special discount rate for teams of 10 and above. All discounts will be revoked for late or non-payment and a full program price will be charged.

► PAYMENT INFORMATION AND TERMS

An invoice will be sent detailing your payment options, including:

1. Electronic Bank Transfer
Please remit the transfer to

Account Name	Ad Astra Pte Ltd
Bank Name	DBS Bank Ltd
	DBS Building Tower One 6 Shenton Way Singapore 068809
Account No.	0070-000466-01-0-022
Swift Code	DBSSSGSG

An additional bank charge of USD 20 is applicable to ensure full amount to be received.

Please indicate the name(s) of delegates when remitting payment.

2. Cheque / Bank Draft
Please make the cheque payable
Ad Astra Pte Ltd

Payment terms are five days from the date of the invoice and payment must be received prior to the date of the program. An official receipt will be issued when the remittance has been received or cheque/bank draft has been cleared.

Substitution and Cancellation: The registration may be transferred to a member of your organization at no additional charge if the request is received in writing at least 14 days prior to the program. Substitutions made between 14 days and the date of the program is subject to an administrative charge of 20% of the program fee. All cancellations must be received in writing by mail or fax. No refunds are possible for cancellations received less than 30 days before this course. For cancellations received in writing 30 days prior to the program, the registration fee less the 20% administrative charge will be credited to another Ad Astra program within 9 months from the date of the program originally registered for. Thereafter, the full program fee is payable and is non-refundable. The service charge is non-refundable and non-creditable. Non-payment or non-attendance does not constitute cancellation. The client, by signing this contract, agrees that in case of dispute or cancellation of this contract that Ad Astra will not be able to mitigate its losses for any less than the full amount of the total contract value. The program fee will not be refunded, but can be credited to a future program. If, for any reason, Ad Astra decides to cancel or postpone this program, Ad Astra is not responsible for covering airfare, hotel, or other travel costs incurred by clients. Ad Astra will not be regarded liable for any circumstance beyond their control that leads to any cancellations or variation.

Privacy Statement: Ad Astra values your privacy. Information you have provided will only be used to provide you with updates about our products and services and to conduct market research related to your industries. It will not be used without your consent for any other purposes and will not be generally disclosed to any party.

Program Changes Policy: While every reasonable effort will be made to adhere to the advertised program, Ad Astra reserves the right to make changes to the content of the programs, speakers, dates, sites or locations or omit program features, or merge the program with another program, as it deems necessary without penalty and in such situations no refunds, part refunds or alternative offers shall be made. In the event Ad Astra permanently cancels the program for any reason whatsoever (including, but not limited to force majeure occurrence), and provided that the program is not postponed to a later date nor is merged with another program, the Client shall receive a credit note for the amount that the Client has paid to such permanently cancelled program, valid for up to one year to be used at another Ad Astra program. No refunds, part refunds or alternative offers shall be made.