

Consulting and Training Services Available to the Petroleum Industry

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Crude Oil Quality Group
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Products and Services

- Operations Support
 - Process Analysis, Troubleshooting, and Optimization
 - Technical Training
- Business Development
 - Feasibility Studies
 - Project Identification and Cost Estimation
 - Technology Evaluation, Marketing, and Royalty Negotiation
 - Mergers and Acquisitions Assistance
- Project Implementation Support
 - Preliminary Process Design
 - Project Development, Management, and Control
- Litigation Support
- Customized Training and Advisories

Training Workshops (1)

Middle East, Europe, Americas

- Introduction to Upstream Oil and Gas Technologies and Operations
- Hydrocarbon Production Operations
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- Natural Gas Production, Processing, and Transportation
- Natural Gas Treating and Acid Gas Removal
- GTL, LNG, and other Stranded Gas Technologies
- Crude Oil and Petroleum Fractions: Characterization, Properties, Implications
- Petroleum Refining Technology and Operations
- Economics of Refinery Planning, Blending, and Scheduling
- The International Petroleum Manager Program
- Global Petroleum Economics and Business Practices

Training Workshops (2)

Middle East, Europe, Americas

- Gas Sweetening and Acid Gas Removal
- Amine Unit Operations and Troubleshooting
- Delayed Coker Design, Operations, and Troubleshooting
- Fluid Catalytic Cracking
- Lube Refining Technology, Operations, and Economics
- Process Engineering Fundamentals
- Chemical Engineering for Non Chemical Engineers
- Orientational Training for Young Refinery Process Engineers and Operators

Workshop: Hydrocarbon Production Operations

- Nature and Properties of Crude Oil
- Petroleum Geology and Exploration for Oil and Gas
- Exploration and its Methodologies
- Drilling
- Crude Oil and Natural Gas Production
- Hydrocarbon Production Analysis
- Field Processing of Crude Oil
- Crude Oil Separation
- Storage, Metering, and Related Operations
- Crude and Product Transportation

Workshop: Crude Oil and Petroleum Fractions—Characterization, Properties, Implications

- Refinery Stream Characterization
- Laboratory Petroleum Distillations
- Phase Behavior of Hydrocarbon Systems
- Thermodynamic Correlation Methods
- Thermal Properties
- Heteroatoms and Their Impact on Operations
- Vapor-Liquid Equilibrium Processes
- Vapor-Liquid K-Values & Graphical Correlations
- Crude Properties and Refinery Maintenance

Workshop: Petroleum Refining Technology and Operations

- Historical Development of the Refining Industry
- Refinery Feedstreams, Products, and Structure
- Processing Units: Structure, Operations, Yields
 - Atmospheric and Vacuum Distillation
 - Light Ends Upgrading
 - Gasoline Manufacturing Processes: Isomerization, Alkylation, Reforming, Polymerization
 - Catalytic Cracking
 - Resid Processing: Coking, Visbreaking
 - Hydroprocessing: Hydrocracking and Hydrotreating
- Product Blending
- Petrochemical Feedstocks and Processes
- Supporting Processes
- Simple and Complex Refineries
- Impact of Environmental Regulations

Workshop: Economics of Refinery Planning, Blending, and Scheduling

- Refinery feedstocks and products
- Refinery structure and processes
- Overview of refinery economics
- Refinery programming/planning
- Linear programs in refinery planning
- Refinery operations scheduling
- Product blending and its economics
- Recent and anticipated advancements in supply chain management integration

Workshop: Global Petroleum Economics and Business Practices

- World Petroleum Markets
- Exploration and Production
- Characteristics of Crude Oils
- Oil Market Price Determination and Analysis Techniques
- Crude Oil and Product Transportation
- Refinery Configurations and Margins
- Economics of Individual Processes
- Refinery Crude Oil Valuation
- Economics of Blending
- Short-Term Refinery Optimization
- Refined Products Trading
- Price Risk Management

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