

Base Oils I: Fundamentals of the Base Oils Business 8:00AM EST

Module 1	
8:00	Welcome and introduction to the course
8:10	 Crude and Refining Overview World's largest base oil refining companies Crude types, pricing, and valuation Crude for base oils vs. fuels refining
9:10	 Base Oil Manufacturing: Solvent Processing Base oil definitions and terminology Historical manufacturing: solvent processing Example: Arab Light 95 VI via solvent processing
9:55	Break
10:10	 Base Oil Manufacturing: Hydroprocessing Hydroprocessing terms and general overview Newer technology: hydroprocessing Example: Arab Light 95 VI via hydroprocessing
10:55	Summary and conclusions
11:00	End of day one



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Module 2

8:00	 Base Oil API Groups & Qualities The API base oil groups: I, II, III, IV and V Quality comparison of the different API Groups Discussion: are the API Groups still relevant today?
8:50	 Base Oil Manufacturing: Hybrid Processes Hybrid solvent processing + hydroprocessing Hybrid fuels and base oil hydrocracking
9:35	Break
10:05	 Base Oil Demand (Finished Lubricants 101) Correlating base oils to finished lubricants Transportation, industrial and process oil segments Base oil quality trends within each sector
10:45	Summary and conclusions
11.00	End of day two



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Module 3

8:00	 Discussion: Global and Regional Quality Differences Base oil quality differences by company and by region Key reasons for regional differences in manufacturing and supply quality Going forward: why does regional crude quality matter?
8.45	 Lubricant additives & supply chains Additive introduction Major additive functions Supply chains - blending and packaging
9.35	Base oils industry survey
9:45	Break
10.00	 Future trends – disruptive scenarios Here come Electric Vehicles – a forecast Gas-to-liquids (GTL) base oils
10.45	Course conclusion
11 00	End of the course