



Base Oils I: Fundamentals of the Base Oils Business
18 – 20 October 2021
10:30AM London

Module #1 (day one):

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| 10:30 – 11:30 | Crude and Refining Overview <ul style="list-style-type: none">• World's largest base oil refining companies• Crude types, pricing, and valuation• Crude for base oils vs. fuels refining |
| 11:30 – 12:15 | Base Oil Manufacturing: Solvent Processing <ul style="list-style-type: none">• Base oil definitions and terminology• Historical manufacturing: solvent processing• Example: Arab Light 95 VI via solvent processing |
| 12:15 – 12:45 | Break |
| 12:45 – 1:30 | Base Oil Manufacturing: Hydroprocessing <ul style="list-style-type: none">• Hydroprocessing terms and general overview• Newer technology: hydroprocessing• Example: Arab Light 95 VI via hydroprocessing |

Module #2 (day two):

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| 10:30 – 11:20 | Base Oil API Groups & Qualities <ul style="list-style-type: none">• 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? |
| 11:20 – 12:05 | Base Oil Manufacturing: Hybrid Processes <ul style="list-style-type: none">• Hybrid solvent processing + hydroprocessing• Hybrid fuels and base oil hydrocracking |
| 12:05 – 12:35 | Break |
| 12:35 – 12:45 | Key terms quiz |
| 12:45 – 1:15 | Discussion: Global and Regional Manufacturing Routes <ul style="list-style-type: none">• Base oil manufacturing differences by region• Key reasons for regional differences in manufacturing and supply quality• Going forward: why does regional crude quality matter? |
| 1:15 – 1:30 | Summary and conclusions |



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Module #3 (day three):

10:30 – 11:15	Lubricant additives <ul style="list-style-type: none">• Additive introduction• Major additive functions• Finished lubricant blending and packaging
11:15 – 12:10	Base Oil Demand (Finished Lubricants 101) <ul style="list-style-type: none">• Correlating base oils to finished lubricants• Transportation, industrial and process oil segments• Base oil quality trends within each sector
12:10 – 12:20	Base oils industry survey
12:20 – 12:40	Break
12:40 – 1:25	Future trends – disruptive scenarios <ul style="list-style-type: none">• Here come Electric Vehicles – a forecast• Gas-to-liquids (GTL) base oils
1:25 – 1:30	Course conclusion